

REPORT NO FAAAD-81-3

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TECHNICAL PROGRAM DOCUMENT.

FISCAL YEAR 1981.

RESEARCH & DEVELOPMENT APPROVED PROJECTS





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U.S. DEPARTMENT OF TRANSPORTATION

Systems Research & Development Service FEDERAL AVIATION ADMINISTRATION Washington, D.C. 20590

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Title	COMMUNICATIONS	Develop Small Voice Switching System (SVSS) Voice Switching and Control System (VSCS) National Airspace Data Interchange Network (NADIN) ATC Computer Data Communication Support Emergency Locator Transmitter (ELT)/Search & Rescue (SAR) Support	APPROACH AND LANDING SYSTEMS	ILS Sustaining Engineering Head-Up Display (HUD) Simulation and Flight Test Cockpit Information Controls and Displays Develop Microwave Landing System (M.S) Aircraft Alert Systems Standardization Studies Airborne SystemsCockpit Interface/Systems M.S Service Test and Evaluation Program (STEP)	Pilot Factors (Workload Measurement)	AIRPORI/AIRSIDE Crash Fire Rescue Equipment/Agents Airport Pavement Runway Surface Traction EN ROUTE CONTROL Surveillance System Improvements Conflict Resolution Advisory En Route Wetering Control Message Automation (CMA) Electronic Tabular Display Subsystem (ETABS) Radar Display Recording/Playback Subsystem EARTS Display Recording/Playback Subsystem ETABS Display Recording/Playback Subsystem ATARS Processing ETABS Software Interface Development Computer Software Development System Engineering and Technical Assistance (SETA) Sector Suite Development Computer Replacement System Design 25-Inch Cathode-Ray Tube Safety Tests DARC RADAR Display Markers
PROJECT	90	062-222-010 062-223-110 063-221-010 063-221-02C 064-221-020	07	071-313-010 073-320-010 073-330-010 075-325-010 076-312-010 076-320-010	077-340-010	081-431-010 082-420-010 082-421-010 082-431-010 122 122-111-010 122-112-050 122-113-010 122-113-050 122-113-010 122-113-050 122-113-010 122-113-010 123-13-020 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010 123-13-010
Title	RADAR	ARSK/CD Alignment and Adjustment Procedures Radar Detection of Birds Mazardous to Aircraft Airport Doppler Radar Low-Altitude Wind Shear Detection Moving Target Detector (MTD)	BE ACON	ATCRBS Improvements (Antenna/Processor) Discrete Address Beacon System (DABS) Automatic Traffic Advisory and Resolution Service (ATARS) Automatic Traffic Advisory and Resolution Service (ATARS) Automated Terminal Service (ATS)	NAVIGATION	Wilcox 5858 VOR Systems Parameters Develop VOR Zero Phase Standard Propogation Wodeling VOR Siting Criteria Update Second Generation VORTAC U.S. National Standard for The VORTAC System VLF/ONEGA/Differential ONEGA Helicopter IRR Operation Evaluation Air Navigation Forstens, ONEGA Helicopter IRR Operation Evaluation Air Navigation Management Airborne Navigation Management Precision DNE (PDNE) Development Operational Use of LORAN-C in Aviation GPS Prototype LOW-Cost Receiver GPS Flight Evaluation GPS Flight Inspection AIRBORNE SEPARATION ASSURANCE Develop Full BCAS System Develop Active BCAS System
PROJECT	81	021-241-010 021-241-020 022-242-030 022-243-010	6	033-241-010 034-241-010 034-242-010 035-242-010	ଷ	041-305-040 041-305-050 041-305-050 041-305-060 041-307-040 042-308-010 043-311-010 043-310-010 047-350-010 047-350-010 047-350-010 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-350-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020 047-370-020

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Title	AIRCRAFT SAFETY	Helicopter Icing Environment for Airworthiness Standards and Certification	Aviation Security Research Program	NO.	Aeronautical Band Studies Alaskan Air/Ground High Frequency	Communications Prediction Service LF/WF Assignment Handbook Revision	BCAS EMC Analysis (ECAC) VHF/IHF Air/Ground Communications Frequency	Engineering Handbook 6050.48 WHF/LHF Microwave Link Frequency Engineering	Handbook 6050.17A Rev. Wetrication in the National Airspace System	FAQ/NASA Simulations	Chicago Midway Airspace Study	Mexico City Airspace/Airport Study	FAA/NASA VIOL Support Program	Luran riight roiinming (Luri) Remote Maintenance Monitoring System with	Consolidated Displays	Standard Supervisors Desk/Console for TRACONS	Description/Definition of Future ATC Systems	and Associated Interfaces								
PROJECT	18	182-530-17W	185-261-010	77	213-460-090 213-460-330	213-462-020	213-462-070	213-462-370	215-408-010	218-150-010	218-152-030	218-152-040	218-154-01H	219-151-010		219-151-020	219-122-010									
Title	FLIGHT SERVICE STATION	Flight Service Automation System Acquisition Development, Test and Specification of FSS	Direct User Acess Capabilities . repursus /rower courses		Computer Software Development Support (ARD-140) Program Planning and System Engineering (MITRE)	Full Digital ARIS Display (FDAD) Development Terminal Sequencing and Spacing	UMBS/CONTICT ALERT/AIMS INTERTACE ARTS II Enhancements	Data Link Interface Visual Confirmation of Voice Takeoff Clearance	Computer Software Development Support (ARD-140)	Program Planning and System Engineering (WITME) Commuter Replacement Specifications		MEATHER	Systems Engineering Support	Develop Data Link Weather Products	Cockpit Weather Display	Center Weather Service Unit (LWSU) Development Terminal Weather Controller Support	Center Controller Support	Solid State AIIS Terminal Area Weather Support (DDOCS)	Frequency of CAI III Visibility Conditions	AMOS and Meather Sensors	Helicopier Weather Detection Systems NEXRAD 1990 Support	NEXRAD Requirements Analysis Engineering Support	Terminal Weather Radar Development	Weather RADAR Experimental Facility	Weather RADAR Sustaining Engineering	Meteorological lechniques Development Airborne Doppler Weather RADAR Evaluation
PROJECT	ল	132-402-010 132-403-010	2	타	142-120-010 142-121-010	142-171-050	142-175-010	142-176-040 143-152-010	145-130-01C	145-131-01C		긔	151-410-01#	151-412-01W	151-412-02W	151-413-018	151-413-04W	151-413-06W	152-410-031	153-410-01W	155-411-01H	155-410-02W	156-230-01W	156-230-02W	156-231-01W	156-410-01# 156-410-02W

****** RESEARCH AND TECHNOLOGY * REPORT DATE: 1/06/81
TECHNICAL PROGRAM DOCUMENT

D ADJUSTHENT P
6. CRGREIZATION: ARD-231
9. BEQUIBERENT: ARD-100 LT9 REQUEST 9/75; REVALIDATED 2/78
10. PARTICIPATING DOI/GOVERNMENT ORGANIZATIONS AND AGREENENT NUMBERS:
CEGANIZATION HANZ: FAR TECH CENTER ACT-100H TPD-02-106
11. SPECIFIC DEJECTIVES:
TO INVESTIGATE TUE ALIGNMENT AND ADJUSTMENT PROCEDURES OF ARSR ENROUTE SYSTEMS TO ENHANCE PROCESSING OF COMMON DIGITIZER (CD) DATA AND RECOMMEND ANY IMPROVEMENTS AND MODIFICATIONS TO ARD-100.
12. MILESTONES:
TYPE DESCRIPTION TERROTERENTS ISSUED
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REPORT DATE: 1/06/81 TECHPOIOGY TECHNICAL PROCEAR POCUMENT C) N

1. PROMECT_NUMBER: 021-241-020

2. SIARI_DAIE: 10/79

3. FEVISION NUMBER:

4. IIILE: RADAR DETECTION OF SIPDS HAZARDOUS TO PIRCHAFT

7. ITIETHONE_NUMPEE: 202-426-8576 6. ORSANIGALIUM: ARD-231

5. MANAGER: KENNETH THORPSON

10. PARTICIPATIVE DOTZGOVEHNMENT CHGANIZATIONS AND AGREEMENT NUMBERS:

9. REQUIREMENT: FAA FORM 9550-1, NO. AAS-300-79-1, 5/25/79

ORGANIZATION MARE: FAA TECH CENTER, ACT-100H

AGREERENT NUMBER: TPD-02-106

11. SEECLEIC OBJECTIVES:

TO DEVELOP REGUTREMENTS OF A FORTABLE RADAR PECOFDING SYSTEM SUITABLE FOR USE IN MONITORING AND RECOMBING BIRD MOVEMENTS IN AN AIRPORT SUPVEILLANCE RADAR (ASP).

12. <u>411.2572015</u>:

DESCRIPTION TOP FORWARDED TO AAS TYPE Indicator

CURR DATE 10/80

REFORT DATE: 0 TECHNICAL PROGRAM DOCUMENT EAFOH S Ĺŧ.

1. PRCJECT_MUMBER: 022-242-030

2. START_DATE: 7/76

3. REVISION NUMBER:

4. IIILE: AISPORT POPPLEP RADAR LOW-ALTITURE WIND SHEAR DETECTION

7. IELEFBONE_NUMBER: 202-426-6576 6. ORGANIZATION: APD-231

5. MANAGER: ISADORE GOLDHAN

9. BEQUIABLING FED PROG FLN FIND SHEAP FAA-ED-15-2A, SEE APD-1 LTF DATE 8/31/79

10. PARTICALATING POT ZGOVERNHENT ORGANIZATIONS AND AGREEMENT NURBERS:

CRGANIZATION MAKE: NGAA/WAVE PROP LAB, BOLDER, CO, TSK 7 FAA TECHNICAL CENTEF (PROJ 630)

AGREEMENT NUMBER: FA76#AI622 TPD-02-106

11. SPECIFIC OBJECTIVES:

TO DETERMINE THE FEASIBILITY OF USING AN AIRPOST PULSE NOPFLIF KADAS TO IDENTIFY WIND SHEAR HAZARDS ALONG AIRPORT RUNHAY APPROACH AND DEFARIURE FATES TO PROVIDE NARNING OF DANGEROUS WINDS.

12. MILESTONES:

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TECHNICAL PROGRAM DOCUMENT

1/06/81

REPORT DATE:

1. EBOJECI_NUMBER: 022-243-010

00/0 CTAPT DATE: 7. TELEPHONE_NURBER: 202-426-8576

REVISION NUMBER: 3.

4. IIILE: MOVING TARGET DETECTOR (MTD)

MANAGER: DONALD TURNPULL

6. OBJABIZATION: AFF-231

5.

10. PAULICLEALING DOT ZGOVERNMENT CEGANIZATIONS AUGLACRETURS. NURBEEC: 9. SECUIRCESII: PROCRAM PLAN FAR-ED-02-1 AAF LETTEF 7-76

ORGANIZATION NAME: FRA TECHNICAL CENTER, ACT-100H USAF

AGREERENT NUMBER: TED-02-106 WAI-679

N.E. REG AND EASTERN REGION

SERITOPIECT STAINES: 11.

SADS WITH CONTRACTOR AND FAA TECHNICAL CENTEP SUFPORT WILL FROVIDS FOR THE DEVELOFMENT AND SVALUATION OF ADVANCED RADAR SIGNAL PROCESSOF THAT WILL FROVIDE GPEATLY IMFROVED DETECTION OF ALKCRAFT IN THE PRESENCE OF GROUND AND FRECIFITATION CLUTTER AND ALSO PROVIDE GPEATLY IMPROVED RADAR TEACKING CAPABILITY FOR AUTOMATED SYSTEMS.

ALLES TONES: 12.

DESCRIPTION
TELS FID-II CONTRACT AGARD
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EN BOUTE WTD II TOPE OF ASR-9 COMPLETE
WTD II TOPE OF ASR-7/8 TO ARE
WTD II TOPE OF ROUTE RADARS TO ARE
WTD FINAL GEFORT TAPICATOR

CUER DATE 9/16 8/76 4/79 3/60 1/61

1/06/81 REFORT DATE: و. ပ _ 0 C H TECHNICAL IPOGEAM POCUMENT ш ۵ z < т Н a. (L) G) 141 641

ZROJECE NUMBER: 073-241-010

3. REVISION NUMPER:

7/75

2. STEPILDATE:

| CICCECURE | ATCRES | IMPROVEMENTS | (ANTENNA/PROCESSO) |

. = •

ORGANIZATION: END-232

5. MAKAGLE: JOSEFH DEMEO

9. SEMUINERSMI: 9*50.1, AAF-75-64 ECH PROC PLAN (PROPOSED) FAR-00-03-02

7. TELEPHONE NUMBER: 202-426-8340

10. PARTICIPATING DOTZGOVESNIEST ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREPTON NUMPER: TPD 03-173 72WAI-242

ORGANIZATION NAME: FAA TECHNICAL CENTER (C. HAZELVOOD) LL USAR-IAA

SESCIETC OBJECTIVES: 11.

TO DESIGN AND DEVELOP LEPROVED ATCRES ANTENNAS & BEACON SIGNAL PPOCESSORS IN SUPPORT OF THE AGENCY ATCARS LYPROVEMENT PROGRAM. THE RESULTING SERVICES TO IMPLAMENT LEPROVEMENTS IN THE OPERATING SERVICES TO IMPLAMENT LEPROVEMENTS IN THE OFERATIONAL TERMINAL/ENROUTE FACILITIES.

12. MILESIONES:

DESCRIPTION TOP PANDOFF, LIGHTWRIGHT ARP TYPE INDICATOR

CURE DATE 4/81

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REPORT DATE: 1/06/81 TECHNICAL PROGRAM DOCUMENT

2. STARI_DAIE: 1. PROJECT NUBBER: 034-241-010

4. IIILE: DISCRETE ADDSESS BEACON SYSTEM (DABS)

7. TELEFHONE NUMBER: 202-426-4085

5. MANAGER: JOSEPH DEMEO

3. REVISION_NUMBER:

1/72

6. CRGALIZALION: ARD-230

9. BECULBEMENT: ECD PROGRAY PLAN FAA-ED-03-1

10. PASTICIPATING DOI / COYFENHENT CPGANIZATIONS AND AGREEMENT NURBERS:

ORGANIZATION MAME: LL (USAF) FAA TECHNICAL CEMTER (I. BONA) ECAC (DOD)

AGREERNT NUMBER: 72WAI-261 TPD 03-110 77WAI-778

11. SPECIFIC OBJECTIVES:

TO PHOVIDE IMPROVED SURVEILLANCE AND DATA LINK COMMUNICATIONS TO SUPFORT THE ATC AUTOMATION SYSTEMS NEEDS INCLUDING COLLISION AVGIDANCE FOR THE SELECTED 1960'S AND 1990'S TRAFFIC ENVIRONMENTS. THE SELECTED DESIGN IS TO PEAMIT AN EVOLUTIONARY INTHODUCTION OF DABS AND IS COMPATIRLE WITH THE EXISTING ATCRES.

SILESIONES: 12.

CURR	DATE	11/80	10/80	12/80	08/4	09/6	4/82	4/82
	DESCRIPTION	FINAL NATIONAL STANDARD TO ROA-1	HODE 4 FLICKT TESTS	COMP DABS/AIMS (DOD) EMC TESTS	SINGIE/WILLI SENSOP TOP	MULTI-SITE TEE INITIATED	MULTI-SITE TEE COMPLETED	MULTI-SITE TEE TOP
E CAL	INDICATOR		> 7:		رن دن	2 C)	уг У:	ر د اه

		BEDCRY DATE.			
			FRUNCIO NEUCORO LECENTORE	THE TOPO THE	
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1. PROJECT_NUMBER: 034-242-010

1/72 SIARI DAIE: 4. IIILE: AUTOKATIC TRAFFIC ADVISORY & RESOLUTION SERVICE (ATARS)

7. TELEPHONE_NUMBER: 202 755-4995

6. CRGANIZATION: AFD-241

5. MANAGER: JOHN SCARDINA

æ

3. REVISION NUMBER:

10. FARTICIPATING DOT/GOYERNMENT ORGANIZATIONS AND AGREENENT NUMBERS:

9. <u>KEQUIREME</u>: UPGRADED 32D SFPARATION ASSURANCE REQUIREMENTS

FAA TECHNICAL CENTER, ACT-140 FAA TECHNICAL CENTER, ACT-220 CRGANIZATION NAME:

AGREBHENT NUMBER: TPD 63-110 TPD 05-298

11. SPECIFIC_OBJECTIVES:

TO DEVELOP AND EVALUATE THE AUTOMATIC TRAFFIC ADVISORY AND RESOLUTION SERVICE - A GROUND-BASED COLLISION AVOIDANCE SYSTEM DESIGNEDTO IMPROVE THE SAFETY OF CIVIL AVIATION BY REDUCING THE PROBABILITY OF MIDAIR COLLISIONS FOR BOTH CONTROLLED AND UNCONTRULLED AIRCRAFT.

12. MILESTONES:

CURR DATE 4/80 12/80 6/81 1/82 4/82 FUBLISH DRAFT NATIONAL STANDARD IN FED REGISTER PUBLISH CPFS FOR COMPLETE ATARS WITH CSR PURLISH FINAL NATIONAL STANDARD IN FED REGISTER INITIATE TESTING COMPLETED ALGORITHM WITH CSR ATARS TEE DRAFT REPORT DESCRIPTION ATARS INPUT TO DARS TOP BY SEEC INDICATOR MC TYPE U U

REPORT DATE: 1/06/81 0 6 TONEDEL TECHNICAL FROGRAM DOCUMENT () X K FSEABCH

1. PROJECT_NUMBER: 035-242-010

2. START_DATE: 6/80

7. TELEPHONE NUMBER: 202-755-4995

0 3. EEVISION NUMBER:

4. IIILE: AUTOMATIC TRAFFIC ADVISORY & RESOLUTION SERVICE (ATARS)

6. ORGANIZATIOM: ARD-241

5. MANAGER: JOHN SCARDINA

9. BEGUIREMENT: UPGRADED AND SEPARATION ASSURANCE PROUIRFMENTS

10. PARTICIPATING DOT/GOVERNMENT CRGANIZATIONS AND AGREEMENT NUMBERS: DRGANIZATION NAME: FAA TECHNICAL CENTER, ACT-100A FAA TECHNICAL CENTER, ACT-220

AGREEMENT NUMBER: TPD-03-110 TPD-05-298

11. SPECIFIC OBJECTIVES:

DEVELOP SITE ADAPTED AND OPTINIZED ATARS PARAMETERS TO SUPPORT THE OPERATIONAL DEVELOPMENT OF THE INITIAL ATARS SITES.

12. MILESTONES:

DESCRIPTION SITE ADAPTATION PROCEDURES REPORTS INDICATOR NC NC N

CURR DATE 4/85

REPORT DATE: 1/06/81 0 TECHNICAL PROGRAF DOCUMENT A N RESEARCH

1. PROJECT_MUMBER: 035-241-019

2. STARI_DAIE: 10/81

3. REVISION_NUMBER:

4. IIIE: AUTOMATED TERHINAL SERVICE (ATS) 6. QBGAMIZATION: ARD-232

5. BANAGER: JOSEPH DENEO

9. SEQUIREKENT:

7. IELEPHONE_NUMBER: 202-426-8340

10. PARTICIPATING DOTZGOVERMENT ORGANIZATIONS AND AGREEMENT NUMBERS: ORGANIZATION NAME:

AGREEPENT NUMBER:

11. SPECIFIC OBJECTIVES:

DEVELUP TECHNICAL SPECIFICATIONS FOR THE AUTOMATED TERMINAL SERVICE (ATS) AND PROCURENENT OF A PROCUSENENT OF A

12. MILESIONES:

DESCRIPTION CONTRACT AWARD TDP INDICATOR

CURR DATE 10/85 4/88

REPORT DATE: 1/06/81 ی 0 H 0 **X**. TECHNICAL PROGRAM DOCUMENT E-I 4 z « EARCH S بعز œ

1. PROJECT_NUMBER: 041-305-040

1/78 2. START DATE: 7. TELEBRONE NUMBER: 202-426-8596

3. REVISION_NUMBER:

4. IIILE: WILCOX 585B VOP SYSTEMS PAPAMETERS

6. ORGANIZATION: ARD-310

5. MANAGER: FRANK BASSETT

9. BEQUIRERENT: 9550: AAF-410-78-03

10. FARTICILATING DOIZGOVEENMENT ORGANIZATIONS AND AGREDMENT NUMBERS:

ORGANIZATION MAMU: NAFEC

AGREEMENT NUMBER: TPD-04-309

11. SPECIFIC COJECTIVES:

NAFEC WILL CONDUCT TESTS TO DETERMINE THE MAGNITUDE OF THE GROUND CHECK DUE TO EACH OF THE FOLLOWING PACTORS: A) SLOT ANT, P) THE COUNTERPOISE; C) GONIOMETER; AND D)VOR TRANSMITTEM SYSTEM.

12. MILESIONES:

DESCRIPTION FINAL RPPORT (WILCOX 585P) TYPE INDICATOS CONTRACTOS

CUER PATE 2/81

1/06/81 REPORT DATE: TECHNOLOGY TECHNICAL PROGRAM DOCUMENT × RESERROR

And the second s

1. PROJECT NUMBER: 041-305-050

8/73 STABILDATE: .

3. REVISION NUMBER:

4. IIILE: DEVELOP YOR ZERO PHASE STANDARD

6. ORGANIZATION: ARD-310

5. MANAGER: FRANK BASSETT

9. SEUDIBERENT: 9550 AFE-700-74-1

7. TELEPHONE NUMBER: 202-426-8596

10. PARTICIPATING DOTZGOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME: MBS

12. MILESTONES:

A VOR ZERO PH STAND IS BEING DEV BY NBS AND FUNDED JOINTLY BY DOD/FAA. THE STANDARD CONSISTS OF TWO PARTS, VIZ AS AUDIO AND AN RESTANDARD. DOD(NAVY) WILL FUND FY-79 WITH \$50K AND DOD(USAF & USA) WILL FUND \$50K FOR FY-80 AND NO FAA FUNDS FOR EITHER FY-79 OR FY-80. DESCRIPTION
ADVISE AFS OF AUDIO STANDARD
ADVISE AFS OF RF STANDARD INDICATOR M X

CURR <u>DATE</u> 6/81 10/82

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1/06/81 REPORT DATE: , C 0 1 0 2. 2: 0 TECHNICAL PROGEAM ENCUMENT iai Er C 7. 7 7 K K **(4)** ŧγ ia.

PROJECT NUMBER: 041-305-060

6/73 CTART DATE:

C

3. KEVISION NUMBER:

4. IIILE: PROFOCATION KODELING 6. OBGANIZATION: AND-310

5

MANAGER: FRANK BASSETT

9. BEQUIREMENT: ED PROGRAM PLAN ED-04-01

7. IELEPHONE_NUMBER: 202-426-8596

10. PARTICIPATING DOT ZGOVE MNYBYT ONG ANIZATIONS AND LAGRERENT MUNEBERS:

ORGANIZATION NAME: ED SAUTELLE ANA-120

ASPEEMENT NUMBER:

SPECIFIC OBJECTIVES:

TO DEVELOP COMPUTER FROGRAMS WHICH WILL ASSESS SPECIFIC EFFECTS OF VARIOUS TYPES OF REFLECTORS
AKOUND A VOK OK DOPPLER VOK. THESE VILL THEN FE HANDED OFF TO REGIONAL PERSONNEL TO DERKIT THEM TO USE THESE PROGRAMS. SYRACUSE UNIVERSITY WILL DEVELOP THE PROGRAMS AND NAFEC WILL VEHIFY WILL VERIFY THE COMPUTER PREDICTIONS.

SEXOISETIE 12.

(PH III) DESCRIPTION FINAL FERPORT (PHASE III) COMPUTER PROGRAMS TO AAF TYPE

CURR DATE 7/81 8/81

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* * **	* REFORT DATE: 1/06/81	*		
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1. PROJECT_NUMBER: 041-305-090

2. START DATE:

7. IELEPHONE NUMBER: 202-426-8596

3. REVISION BURBER:

4. IIILE: VOR SITING CRITERIA UPDATE 6. CRGANIZATION: ARD-310

5. MANAGER: FRANK BASSETT

9. BECUIRGRENT: FAA-ED-O4-01 AND AAF LETTER REQUEST

10. PARTICIPATING DOT / COVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER: NPD-04-309

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME: NAFEC

NEW DEVELOPMENTS SUCH AS DOUBLE SIDEBAND DOPPLER YOR, STACKED ARRAIS, AND PROPAGATION MODELING WILL BE INCOAPORATED INTO THE YOR SITING CRITERIA HANDBOOK. THE WORK WILL BE DONE IN-HOUSE UTILIZING THE OUTPUTS FROM THEIR PROJECTS.

12. MILESTONES:

PESCRIPTION COMPLETE (60K NOT AVAILABLE) TYPE INDICATOR FC S

CURR DATE 6/81

REPOPT DATE: ر د 0 TECHNOL TECHNICAL PROGRAF POCCHENT AND EAFCE v. La. α

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1/06/81

2/74 2. SIPRI DAIE: 7. TELEPHONE NUMBER: 202-426-8596

3. REVISION NUMBER:

4. IIILE: SECOND GENERATION VORTAC

5. MANAGEE: FRANK BASSETT

5. QREANIZATION: ARD-310

9. ARAULEPARMENT: JOINT CIRCOT.FR ASSOC ARMIN 6 FED PEOGRAM PLAN FD-C4-01

10. SARTICIPATING DOTZGOVERHENT DEGANIZATIONS AND AGREEMENT NUMBERS:

DEGANIZATION NAME:

AGREEMENT NUMBER: NPD-04-309

11. SPECIFIC OBJECTIVES:

THE HED EFFORT HERFIN IS PRIMARILY THAT DE CONTPACTOR DEV OF A NAFEC TEST BED FOR A REMOTE CAINTAMANCE MONITOR SYSTEM(THES), THIS SYS, WILL BE EXERCISED AT NAFEC TO DERIVE THE PPOF.SPECIF.DATA. IN ALDITION, SENSORS WILL PE INSTALL.IN A COMMPRCIAL, SOLID STATE VOR TO PERMIT INVESTIGATION OF AUTOMATIC FAULT DIAGNOSIC AND TREND ANALYSIS UTILIZING THE BASIC RMMS.

12. MILESTONES:

DESCRIPTION REPS FVAL. INDICATOR SC N TYPE

CUFR PATE 7/81

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1/06/81 REPORT DATE: ပ ပ ECHNOL TECHNICAL PROGFAM LOCUMENT æ SEAECH

280JECT_MUMBER: 042-308-010

2. STAFILDAIE: 7/76

3. REVISION NUMBER:

4. IIILE: U.S. NATIONAL AVIATION STANDARD FOR THE VORTAC SYSTEM

5. MANAGER: FRANK BASSETT

6. OPGANIZATION: ARD-310

8, 1976 9. REGULARERET: AND-1 LETTER DATED JULY 10. PAKTICIPATING DOTZGOVERAMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

7. TELE PHONE NUMBER: 202-426-8596

CRGANIZATICN NAME: NAFEC DCD

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

THIS EFFORT IS TO UPDATE ABOVE STND, CONSIS W/FUR, THFRECF, TO DEFINE STND & PERF CHARAC NEED'D TO SUP CHOS IN USE OF THE SYS & RADIO FREQS. EMP. RFV NEED'D W/POSS ALTER WILL BE IDENT THPU SRDS REV OF SYS REQYTS INCLUD. THOSE PERT. TO EXP SERV VOL (ESV) AND COMPAT. AS NEED'D, AN FAA ADHOC GRP WILL SIDY ALEEN' AND PART. IN DEVELOP. OF REVIS'D STAN. COOPD. WILL BE IN ACCORD. W/ ESTAB. REQWIS.

FILESTONES: 12.

DESCRIPTION ISS ADVIS CIP AND CEDER SOLID STATE TACAN ANTENNA TESTS (SPT. FEG. INSTL.) INDICATOR TYPE

CURK DATE 4/81 7/61

	REPORT DATE: 1/06/81			~*************************	
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1. PROJECT_MUMBER: 043-304-010

6/15 2. START_DATE: 5. MANAGER: GEORGE DUINN

S

REVISION NUMBER:

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4. IIILE: VLF/ONEGA/DIFFERENTIAL ONEGA

7. TELEPHONE_NUBBER: 202-426-5896 6. QEGANIZATION: AkD-310

10. PARTICIPATING DOI/GOVERNHENT ORGANIZATIONS AND AGREEMENT NUMBERS: 9. RECUIRERERT: MATIONAL PLAN-NAV, 11/77 LETTER, AFS-1, 11/75

GOVI OF CAMADA, AIR TRANSPORT ADMIN 5/79 OBGANIZATION NAME: NAVAL OCEAN SYS CTR (5/77) FAA ALASKAN REG (5-79

FATTHAIT 35 RD/ALT/9226

SPECIFIC OBJECTIVES: ;

DETERMINE THE SUITABILITY OF ONEGA/VLF NAV AS A SUPPLEMENT TO VOR-DME IN REMOTE & OFFSHORE AREAS. SPECIFICALLY, EVAL THE PERF OF DIFF OMEGA IN THE ALASKA-YUKON AREA TOWAPD MEETING MAV REQMIS, DEV TECH FOR USE AS THE BASIS OF A NOTAM SERVICE AND EXAMINE THE METHODS TO REDUCE VLF AND IF BAND NOISE.

MILESTONES: 12.

CURR DATE 11/60 11/81 3/81 3/81 7/82 RET: OMEGA/VLF/LF NOISE REDUCTION
RPT: OMEGA/VLF/LF NOTAM MONITOR EVALUATION
RPT: OMEGA/VLF NOTAM MONITOR EVALUATION
RPT: OMEGA/VLF OMEGA ASSESS.IN ALASKA
AWARD CONTPACT FOR OMEGA/VLF SIMULATOR
REPORT: OMEGA/VLF SIGNAL SIMULATOR INDICATOR TYPE S

REPORT DATE: 1/06/81 ပ TECHBOL TECHNICAL PROGRAM DOCUMENT Q 26 RESEARCE

1. <u>EROLECT_NUMBER</u>: 043-311-010

2. SIABI_DAIE: 12/76

3. REVISION MURBER:

4. IIILE: OCEANIC NAVIGATION SYSTEMS, OMEGA

6. QBGAMIZATION: ARD-310

7. TELEPHOME_NUMBER: 202-426-8596 9. BECUIREKENI: LETTER, AFS-1 TO ARD-1, 11-23-76

S. KAREGER: GEORGE QUINN

10. PARTICIPATING DOT/GOVERNENT ORGANIZATIONS AND AGREEMENT NUMPERS:

ORGANIZATION NAKE:

AGREERENT NUMBER:

SPECIFIC OBJECTIVES: 11.

DETERMINE WHETHER OMEGA SIGNALS FROVIDE A CONTINUING AND RELIABL, SOLE MEANS OF NAVIGATION ON WORLDWIDE OCEAMIC ROUTE STRUCTURES. ALSO, PROVIDE A MORE CONTROLLED MEANS THAN ELIGHT TESTING FOR THE DETERMINATION OF AN ACCEPTABLE AVIONICS PERFORMANCE.

12. MILESTONES:

<u>DESCRIPLION</u> REPORT: OMEGA DATA BANK TYFE TNDICATOR

CURR DATE 11/82

	REPORT DATE: 1/06/81			***********
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1. EROJECT_NUMBER: 045-390-01H

8//9 2. STALT DATE:

3. REVISION NUMBER:

4. IIILE: HELICOPIES IFS OPERATION EVALUATION

5. MANAGER: JAMES NELSON

6. ORGANIZATION: ARD-330

7. TELEPHONE_NUMBER: 202-426-3406

10. PARTICIPATING DOI/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS: 9. HEQUIRENET: HELICOPTER OPTS DEVELOP PLAN, FAA-ED-04-2

AGREEMENT NUMBER: TPE 04-150 DRGANIZATION NAME:
FAA TECHRICAL CENTER
AERONAUTICAL CENTER (AFO-500)
TSC REV 1A 0-A (9/80)

PPA FA191

11. SPECIFIC OBJECTIVES:

DEVELOP IMPROVED SYSTEMS AND PROCEDURES FOR IFR OPERATIONS OF HELICOPTERS, PROVIDE DATA FOR UPER-SEPVS.TO ESTAB, CPITERIA FOR USING LOFAN-C, GPS FOR NAVIGATION AND TRAFFIC CONTROL OF HFLICOPTERS, TOESTAB. NEW CRITERIA FOR HELICOPTEP TERMINAL APPROACH PROCEDURES USING MLS, AIRBORNE RADAR, AND CONVENTIONAL AIDS.

12. MILESTONES:

		CURR
INDICATOR	DESCRIPTION	DATE
	LORAN-C DATA OR APPROVAL CRITERIA, RPT	08/9
	NORTHEAST CORRIDOR EVAL, RFPORT	3/81
က ပ	LOSAN FLT FOLLOWING SYS DESCRIPTION	6/81
	DATA OR INITIAL REV OF HELO TERES RPT	6/81
۵.	MLS HELO STEP EVALUATION	3/82
D.	LOFF EVAL AND ANALYSIS COMP	4/82
×	LOW AIR SPEED EVAL	6/83
» :	FELO GPS RCVR EVAL COMP	3/85
O4 *-	EVAL DISF GPS	3/85
Ω. EC	FADI CERT CRITERIA	6/86
æ.	RECUMMEND IFR HELIPORT LIGHT STANDARDS	6/82
*	IFR CERT GUIDELINES FOR HELICOPTERS	6/64

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1. PROJECT_NUMBER: 047-350-010

2. SIARI DAIE: 8/79

4. IIILE: AIR NAVICATION ERROR BUDGET

7. TELEPHONE NUMBER: 202-426-8596

6. QRCANIZATION: AFD-310

9. BEQUIREMENT: FRA ED-04-01

5. MANAGER: PAUL RICH

3. REVISION_NUMBER:

10. PARTICIPATING DOTZGUERNHENT ORGANIZATIONS AND AGREFFERNT NUMBERS: ORGANIZATION NAME: NAFEC

AGREEMENT NUMBER: NPD 04-267

11. SEECIEIC OBJECTIVES:

DEVELUP ERPOR BUDGET FOR DOT NAVIGATION POLICY DECISION.

12. BILESIONES:

TYPE		CUR
TRDICATOR	DESCRIPTION	DAI
	RET: COCKPIT SIMULATION RESULTS	9/9
: 1	SPT: FLIGHT TEST RESULTS (LCRAN-C)	1/8
<u>م</u> ن	PPT:FINAL NAVIGATION ERROR RUDGET	8/17
	MIS ATC OPESATIONAL PROCEDURES	8/6
Δ, M:	ADV MLS AVIONICS STANDARDS	9/6

	REPORT DATE: 1/06/81			
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1. EROJECT_NUBBER: 047-350-320

8/19 2. STAPI_DATE: 7. IELERHONE_NUMBEE: 202-426-8596

4. IIILE: AIRBORNE NAVIGATION MANAGEMENT

6. QEGANIZATION: ARD-310

5. LANAGEE: PAUL RICH

3. BEYISION NUMPER:

9. BEQUIREKENI: FAA ED-04-01

10. PARTICIERTING DOT/GOVERNMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: NAFEC

AGREBENT NUMBER: NPD 04-207

11. SPECIFIC OBJECTIVES:

NAVIGATION MANAGEMENT FOR BOT NAVIGATION FOLICY PECISION.

12. MILESTONES:

DESCRIPTION PLACE PPT: INTERIM SIMULATION RESULTS PPT: FINAL SIMULATION RESULTS TYPE INDICATOR : #C

CURP PATE 6/82 9/83

1. PROJECT_NUABER: 047-350-030

STAFT_DATE: 10/78 5. 7. TELEPHONE_NUMBER: 202-426-8596

0 3. REVISION NUMBER:

4. IIILE: PRECISION DEE (PDME) DEVELOPMENT

6. OKSANIZATION: ARD-310

5. MANAGER: FRANK BASSETT

10. PARTICIPATING DOI/GOVERNEENT CRGANIZATIONS AND AGREEMENT NUMBERS:

9. BECULARMENT: NAT'L FLAN FOR DFV.OF MLS & NAT'L FLAN JUN'78 UPDATE

ELECMAG.COMPAT.ANAL.CENTER (ECAC) ORGANIZATION NAME: NAFEC

AGREFRENT NUBBER:

11. SEECIFIC ORTECTIVES:

DEVELOP STANDAADS AND PERFORM. SPEC. FOR AN 1-FAND PDYE FOR CIDL MLS APPLICS. (SERV.LEVEL A) AND FOR STOL/VIDL SNE FUTURE CTOL MLSAPPLICATIONS (SERVICE LEVEL P.) WPILE RETAINING COMPATABILITY AND INTEROPERABILITY WITH EXISTING ICAO ANNEX 10 STANDAFDS.

12. MILESTONES:

CURR DAIE 6/82 1/82 7/84 3/84 1/83 DESCRIPTION
REPORT: VOR/DME LOW ALT. COVERAGE
REPORT: DAS INTERIN ASSESSFENT (MLS 360 AZIMUTH)
RPT: PAKE DEVELOPMENT FINAL EVAL.
REPORT: DAS EVALUATION
AMAND CONTRACT FOR PAKE DEVFLOPMENT TYPE INDICATOR KCP

7

1. PROJECT_NUEBER: 048-312-010

6/75 2. STAFT DATE: 7. IELEPHONE NUMBER: 202-426-8596

3. KEVISION NUMBER:

4. IIILE: GPERATIONAL USE OF LORAN-C IN AVIATION

5. MANAGER: GEORGE QUINN

6. ORGANIZATION: ARD-310

9. RECUIREMENT: NATIONAL PLAN FOR NAVIGATION, NOVEMPER 1977

10. PARTICIPATING DOT /GOVFRNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: U.S. SKALL BUSINESS ADMINISTRATION

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

DETERMINE WHETHER LORAN-C IS AN ACCEPTABLE REFLACEMENT FOR VOP-DME AS THE PRIMARY NAVIGATION AID IN THE NATIONAL AIRSPACF SYSTEM (NAS).

12. MILESTONES:

TYPF	Ľs.		CURR
INDICATOR	A TOB	DESCRIPTION	DATE
1:		RPT: LORAN-C FIT. EVAL WEST COAST	3/80
OE.	2.	PPT: LORAN-C MOUNTAINOUS AREA TESTS	9/82
O N	×	REPORT: LORAN-C SIGNAL SIMULATOR EVALUATION	4/82
>:		REPORT: LCRAN-C ANTENNAS EVAL.	10/81
> :		PEPORT: LORAN-C IMPACT ON FAA OPERATIONS	4/82
) E	2.	REPORT: LORAN-C SIGNAL STABILITY ANALYSIS	6/82
O ¥2	2	REPORT: LORAN-C NOTAM MONITOR EVALUATION	10/82
3 7		REPORT: LORAN-C SIGNAL COVERACE STUDY	6/82
> ,	Z	REPORT: LORAN-C GEN. AV. RIVE INT. EVAI	11/82
EC SI		LORAN-C AS CANDIDATE FOR POST-1995 SYSTEM	12/82
3C	72.	REPORT: LOKAN-C GEN. AV. PCVF FVAL.	5/83
⊃;	ye.	REPORT: LOBAN-C FLIGHT INSPEC. EVAL.	12/84
۵, ن ه	æ	REFORT: DIFFERUNTEL LORAN-C EVALUATION	98/86
E		AWARD CONTRACT IORAN C PFCEIVER	09/6
,		DELIVER LOWAN C SIGNAL MONITOR	3/81
22		LORAN C FLIGHT INSERCTION FORT DEL	4/83
,14 *		PROTOTYPE DIFF LOPAN C FORT BELIVERY	8/84

	REPORT DATE: 1/06/81			****************
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1. PROJECT_NUMBER: 049-330-010

2. STABILDAIE: 7/80

3. ELVISION NUMBER:

4. IIILE: GPS PROTOTYPE LOW-COST RECEIVER

5. CRSANIZATION: ARD-310

5. MANAGER: DOUG BLYTHE

9. BEGULAEMENT: NATIONAL PLAN FOR NAVIGATION, NOV. 77, FP PEOG. FLAN 04-01

7. IELEEHONE NUMBER: 202-426-9240

10. PARTICIPATING DOTZGOVERNYENT ORGANIZATIONS AND ACPEEMENT NUMBERS:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME:

SUITABLE FOR HIGH VOLUME DEVELUE A LOW-COST (I.E. S3,000 IN 1978 DOLLARS) GPS RECEIVER PRODUCTION.

12. MILESTONES:

CURE DATE 3/83 6/85 DESCRIPTION AWARD CONTERCT FOR PROTOTYPE GPS LOW COST RECEIVER REPORT: GPS PROTOTYPE LOW COST PECEIVER EVAL. TYPE INDICATOR M P N

	REPORT DATE: 1/06/81			
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1. PROJECT_NUBBER: 049-330-020

2. START_DATE: 8/79

3. PEVISION_NUMBER:

4. IIILE: GPS FLIGHT EVALUATION 6. CRGANIZATION: ARD-310

5. MANAGER: DOUG BLYTHE

9. BEQUIRENT: FEDERAL RADIONAVIGATION PLAN

7. TELEPHONE_NUMBER: 202-426-9240

10. PARTICIPATING DOT/GOVERNMENT ORGANIZATIONS AND AGRESMENT NUPBERS:

ORGANIZATION NAME: FAA TECHNICAL CENTER

AGREEMENT NUMBER: TPD 04-109

DETERMINE THE OPERATIONAL SUITABILITY OF GPS IN TERMS OF AVIONICSCOSTS, OPERATIONAL USE ACCUEACY, COVERAGE, AND SIGKAL ACQUISITION FOR ENROUTE, TERMINAL AND NON-PRECISION APPRCACH IN SUPFORT OF 1982 FAA KECOMMENDATION ON THE FUTURE NAVIGATION SYSTEM/MIX. OPERATIONAL EVALUATION OF LOW COST AVIONICS IN 1983-1985 PERIOD. 11. SPECIFIC OBJECTIVES:

12. MILESTONES:

CURR	DATE	8/19	08/17	4/82	6/85
		FAA/U.S. AIR FORCE M.O.A. (Z-SET RECEIVER LOAN)	DELIVER GPS Z SET RECEIVER TO FAA TECHNICAL CENTER	REPORT: GPS "Z" SET EXPLOPATORY OPFRATIONAL TESTS	GPS FLIGHT EVALUATION
	DESCRIPTION	A/U.S. AIR E	LIVER GPC Z	PORT: GPS .	REPORT: GPS I
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TYPE	INDICATOR	€:	>:	Ų M	S C

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1. PROJECT NUMBER: 049-330-030

2. STARI DATE: 0/00

7. IELEPHONE NUMBER: 202-426-9240

3. REVISION NUMBER:

4. IIILE: GPS IMPACT ON FAA OPERATIONS

6. ORGANIZATION: AED-310

9. REQUIREMENT: FEDERAL RADIONAVIGATION FLAN

5. MANAGEE: DOUG BLYTHE

10. PARTICIPATING DOTZGOVERNMENT OPGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME:

AGPEERENT NUMBER:

11. SPECIFIC OBJECTIVES:

DETERMIME THE DVERALL IMPACT OF REPLACING VOR/DME WITH GPS ON AICPPOCEDURES, CHARTING, NOTAMS, FLIGHT INSPECTION, ETC. IN SUPPORT OF THE 1982 FAA RECOMMENDATION ON THE FUTRE NAVIGATION SYSTEM/MIX

12. MILESTONES:

	DESCRIPTION	REPORT: GPS INFACT ON FAA OPERATIONS	GPS AS CANDIDATE FOR POST-1995 SYSTEM
TYPE	INDICATOR	> '	S OF

CURR DATE 4/82

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REPORT DATE: 1/06/81 * * * * * کر د 0 TONEDEE TECHNICAL PROGRAM DOCUMENT NA H O H H (I) or Eri ****

1. PROJECT_NUMBER: 049-330-040

7. START_LATE: 6/84

3. REVISION NUMBER:

4. IIILE: GPS FLIGHT INSPECTION

6. ORGANIZATION: ARD-310

5. MANAGER: DOUG BLYTHE

5. KEQUIREME: FEDERAL RADIONAVIGATION PLAN

10. PAKTICIPATING DOTZGOYERNMENT ORGANIZATIONS AND AGREEMENT NUKBERS:

7. TELEPHONE_NUMBER: 202-426-9240

DEGANIZATION NAME:

AGREEMENT NUMBER:

11. SEECIFIC OBJECTIVES:

GES FLIGHT INSPECTION REQUIREMENTS WILL BE DEFINED IN FY-60. BASED ON THIS DEFINITION AND ADDITIONAL GPS EXPERIENCE GAINED FY-81 AND FY-82, A FEASIBILITY MODEL DEVELOPMENT WILL BE INITIATED IN FY-83.

12. MILESIONES:

<u>PESCRIPTION</u>
REPORT: GPS FLIGHT INSPECTION SYSTEM EVAL. TYPE INDICATOR

CURR DATE 9/86

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		REPORT DATE: 1/06/81			
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1. PROJECT_NUBBER: 052-241-010

6/15 2. START_DATE: 7. IFIEFHONE NUMBEE: 202-426-9382

3. REVISION NUMBER:

4. IIILE: DEVELOP FULL BCAS SYSTEM

6. QEGANIZATION: ARD-243

5. MANAGER: OHEN MCINTIRE

9. REQUIREMENT: EXCOM MEETING MINUTES E7 (1975)

10. PASTICIPATING DCI/GOVERNMENT OFGANIZATIONS AND AGRIEMENT NUMBERS:

ORGANIZATION NAME: FAA TECHNICAL CFNTER TSC

AGREEMENT NUMBER: PPA FA-080 NPE 05-172

11. SPECIFIC_OBJECTIVES:

TO DEVELOP A SEACON COLLISION AVOIDANCE SYSTEM (PCAS) THAT PROVIDES THE USER PROTECTION AGAINST AIRCRAFT EQUIPPED WITH ATCRES OR DABS TRANSPONDERS WITH AITITUDE ENCODERS. THE ECAS WILL OPERATE COMPAILELY WITH CURRENT AND PLANNED ATC EQUIPMENT AND WILL REST THE FULL RANGE OF USER NEEDS AND REQUIREMENTS. THE OBJECTIVE WILL BE ACCOMPLISHED BY IN-HOUSE AND CONTRACT EFFORTS, INCLUDING SIMULATIONS, ANALYSIS AND HARDWARE DEVELOPMENT AND EVALUATION.

12. MILESTONES:

CUPR DATE 1/81		9/83				
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1. PROJECT_NUMBER: 052-242-010

6/75 2. START DATE: 7. IELEPHONE_NUMPER: 202-426-0986

4. IIILE: DEVELOP ACTIVE BCAS SYSTEM

3. REVISION NUMBER:

9. BECUIREMENT: EXCON METING MINUTES F7 (1975)

6. QRGANIZATION: ARD-242

5. MANAGEE: WILLIAM HYLAND

10. PAKTICIPATING DCI/GOVERM"ENT OPGANIZATIONS AND AGREENENT NURBERS:

ORGANIZATION NAME: FAA TECHNICAL CENTER ECAC

AGREEMENT NUMBER: TPL 05-172 77WAI-080

11. SRECIFIC OBJECTIVES:

DEVELOP AN ACTIVE BEACOM COLLISION AVOLDANCE SYSTEM (BCAS) THAT WILL PROVIDE PROTECTION AGAINST AIRCRAFT EQUIPPED WITH ATCRES AND DABS TRANSPONDERS IN LOW TO MEDIUM DENSITY AIRPORTS, AND BOTH WITHIN AND OUTSIDE ATC SURVETLLANCE.

12. MILESTONES:

CURR <u>DATE</u> 12/78	2/80	10/80	3/81	3/81	2/81	4/81	1/82
PESCRIPTION DRAFT NATIONAL STANDARD ISSUED	LL ENGINEEFING MODEL DELIVERED INDICATES ELECTED	PUBLISH FINAL NATIONAL STANDARD IN FED PEGISTEP	ACT BCAS DIRECTIONAL ANTENNA DELIVERED	PROTOTYPE WODEL DELIVERED	RBX TDF DELIVERED	C/A BCAS ENGR MODEL TESTS COMPLETE	OPERATIONAL TESTS COMPLETED
TYPE INDICATOE EC	> ×	ري ده ع	3 77	>.	JE C	O	» :

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	REPORT DATE: 1/06/84	REFORT DATE: 1/06/81				
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1. EROJECT_NUMBER: 062-222-010

2. STAPI_DAIE: 11/77

7. TELEPHONE_MUMBER: 202-426-8500

3 - EEVISION NUMBER:

4. IIILE: DEVELOP SMALL VOICE SWITCHING SYSTEM (SVSS)

6- PRGANIZALLON: ASD-220

9. BECUIREMENT: 9550 AAF-75-17

5. MANAGEE: CHARLES BEAM

10. PARTICLEATING DOTZSOVERNENT CEGANIZATIONS AND AGEFEMENT NUMBERS:

AGREEMENT NUMBER: TEL OK-361

DRGANIZATION WAME: FAA TECHNICAL CENTER 11. SPECIFIC OBJECTIVES: PROVIDE AN FUGINFERING MODEL FOR TEE OF COMMUNICATION SYSTEM FOR SMALL TOWERS.

12. MILESTONES:

CURE DATE 1/80 6/81 1/82 4/82 6/82 DESCRIPTION CONTRACT AWARD FUGINEERING MODEL DELIVERY ENGR. MODEL TEE COMFLETE TECH DATA PACKAGE TO ARE COMPLETION REPORT INDICATOR TYFE

1. PROJECT BUMBER: 062-223-110

3/78 2. START_DATE:

~ 3. REVISION NUBER:

4. IIIIE: VOICE SHITCHING AND CONTROL SYSTEM (VSCS)

5. KANAGER: LEO GUMINA

7. TELEPHONE_NUMBER: 202-426-8672 6. QRGANIZATION: APD-202

9. REQUIREMENT: SYS REQ GFP 03/78. OPT REQ PROVIDED BY AAT 10-10-78.

10. PARTICIEATING DOI/GOYEMMENT ORGANIZATIONS AND ACREEMENT KUNPERS:

ORGANIZATION WARE:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

TO DESISN, DEVELOP, TEST AN INTEGRATED SWITCHING AND CONTROL SYSTEM FOR BOTH AIR/GROUND AND GROUND/GROUND VOICE COMMUNICATIONS SUITABLE FOR USE IN ENROUTE CENTERS, LARGE AND SKALL TERMINALS AND FLIGHT SERVICE STATIONS. THE OUTPUT OF THIS PROGRAM WILL BE A TECHNICAL DATA PACKAGE(S) SUITABLE OR USE BY AAF FOR PRODUCTION.

12. BILESIONES:

CURR	DATE	11/79	12/80	3/81	4/82	4/83	1/64	10/84	10/85	10/85
	DESCRIPTION	ENGIMEERING REQUIRFFERIS DEVELOPED	ACQUISITION PAPER SUBMITTED TO TSARC	REP ISCUED FOR DEWELOPHENT	CONTRACT AWARD VSCS (1ST OF SERIES)	TDP FOR TOKE CONTROL	TD& FOR FSS SUBSYSTEM	TDP FOR TERMINAL SURSYSTER	TOP FOR ENROUTE SURSYSTEM	The FOL VSCS SYSTEM CONTROL SUBSYSTEM
TYPE	INDICATOR				Z	1 2	S	#: C)		

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		REPORT	REPORT DATE: 1/06/81	1/06/81
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1. PROJECT_NUMBER: 063-221-010

2. SIRRI DRIE: 11/73

7. TELEPHONE MURBER: 202-425-9354

3. KEYISION NUMBER:

4. IIILE: NATIONAL AIRSPACE DATA INTERCHANGS NETWORK (MADIN)

6. ORGANIZATION: ARD-221

5. MANAGER: CHARLES LARUE

10. PARTICIFATIYG DOT ZGOYERNMENT GRGANIZATIONS AND ACREETENT NUMPERS: 9. REQUIRELENT: AFD LTP TO AAF-1 DTD 9-17-75

CRGANIZATION NAME:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

DEVELCY A SYSTEM DESIGN AND SFECIFICATION OP ENHANCEMENT TO THE INITIAL FADIN. PFOVICE LNGINEERING AND CONSULTING SERVICE TO AAF AS PEQUESTED DUFING THE PROCUPEMENT AND DEFLOYMENT OF THE INITIAL NADIN.

12. MILESTONES:

REPORT DATE: ی 0 0 z I DOCUMENT دن (e) E٦ TECHNICAL PROGRAM ۵ z * ENRCE s ند α.

1. PROJECT MUNDER: 063-221-02C

2. START DATE: 6/80

3. REVISION NUMBER: 1

IIIIB: ATC COMPUTER DATA COMMUNICATION SUPPORT

5. BAMASER: JACK SCHROEDER

6. <u>obgabization:</u> ard-221 9. <u>bedibeden</u>: atc computer replacement program

7. IELEEHONE NUBBER: 202-426-9354

10. Participative pot /Governmeet_opgabizations_and_agresquent_nureers:

CRGANIZATION NAME: FAA TECHNICAL CENTER ARD-100, REQ. 123-132-01C

AGREEMENT NUMBER: TRO TRD

11. SPECIFIC CBJECTIVES:

IDENTIFY & BOUND THE DIFFERENT FUNCTIONAL DATA COMMUNICATIONS REQUIRENENTS ASSOCIATED WITH ALLERNATIVE FUTURE NAS ENVIRONSENT (9020R) PROGRAM. DEVELOP AND ASSESS DESIGN ALTERNATIVES AND DATA COMMUNICATION SYSTEM ARCHITECTURES IN SUPPORT OF IDENTIFIED REQUIREMENTS.

12. MILESTORES:

TYPE
INDICATOR DESCRIPTION
FOR IMPACT ON NADIN OF 9020 DESIGN ALTERNATIVES
FOR TOP FOR 9020R DATA COMM SYSTEM

CURE DATE 4/83 6/66

	REPORT DATE: 1/06		
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1. PROJECT_NURBER: 064-221-020

SIARI_PATE: ۶.

3. REVISION NUMBER:

(ELT)/SEARCH & PESCUE (SAP) 4. TITLE: EMERG LOCATOR TRANSMITTER

5. MAMAGER: BARTIN WATCHIOPLSKY

7. TELEPHONE_NUMBER: 202-426-6500 6. ORGANIZATION: ARD-211

9. REQUISEMENT: 9550-AFS-100-78-162 , AED-1 DIRECTION

SUPPORT

10. PAKTICIPATING DOI/GOYESKNESHT ORGAMIZATIONS AND AGREENEKT NUMBERS:

ORGANIZATION NAME:

AGREERENT NUBBER: 794AI-002

11. SPECIFIC OBJECTIVES

AN INTERAGENCY AGREEMENT WITH NASA IS PROVIDING REQUIRED CONTRACTOR SUPPORT IN RNALYSIS OF CURRENT ELT FROSLEMS, DEVELOPING GUIDANCE FOR PROPER JUSTALIATION TECHNIQUES AND IMPROVED SYSTEM HARDWARE COMPONENTS. ADDITIONAL CONTRACTOR SUPPORT WILL PE REQUIRED TO FRVELOP POSSIBLE INSFECTION/TEST PARAMETERS TO ASSURE PROPER OPERATION OF INSTALLET ELTS AND TO TEST PRODUCTION SAMPLES OF SECOND GENERATION IMPROVED ELTS FOR TSO COMPLIANCE AS THEY COME ON THE MARKET.

MILES TONES: 12.

CURR DATE 12/78	8/82	12/82	12/82	1/85	12/85
DESCRIPTION IA WITH NASA SIGNED	AZPORT ON INSTALLATION GUIDANCE	REPORT ON REMOTE COCKPIT MONITOR	REPORT ON CRASH SENSOR INFROVERENT	REPORT ON ELT INSPECTION PARAMETERS	KEPOST ON TEE OF PPODUCTION SAMPLES
TYPE IMDICATOR	a :	***	~:	a:	X C

1. PROJECT_NUBBER: 071-313-010

1/72 SIARI_DAIE: 2.

7. TELEPHONE NUMBER: 202-426-9240

3. REVISION NUMBER:

4. IIILE: ILS SUSTAIVING ENGINEERING

6. CRGANIZATION: ARD-320

5. BANAGER: CARL PETERSON

9. REQUIREMENT: 9550 REQUESTS; NAF-420/ARD-320 AGREEMENTS; FGE BUDG. PEQUEST

10. PASTICIEATIRG DOTZGOYERNHENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: FAA TECHNICAL CENTER RECIONS

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

DEVELOP EQUIPMENTS, TECHNIQUES, STANDARDS WHERE NFEDED TO ENHANCE THE CONVENTIONAL ILS FERFORMANCE CAPABILITY AND RELIABILITY UNDER ALL CONDITION OF SITING AND WEATHER. RESPOND TO AND TAKE ACTIO N RELATIVE TO SPECIFIC FIFLD PROBLEMS AS PEQUESTED.

12. MILESTONES:

CURE DATE	11/81	4/83
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TYPE INDICATOR H	(> (>)	r :

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1. ERGUECT NUTBER: 073-320-010 2. START DATE: 9/77

5. YANAGEP: R. KEELAND

3. REVISION NURBER:

4. <u>IIILE: Head-up display (hud) simulation and fiight test</u> 6. <u>organization:</u> asd-340

ARD-340 7. ILLEPHONE_NUMBER: 202-426-8605

10. PARTICIPATING DOT/GOVERNMENT ONGANIZATIONS AND AGREEMENT NUPBEES:

9. SECULABREENT: AFS-1 LTR. TO ARP-1, DTD. 04/20/76; ACA-1 LTR.TC NASP, DTD. 09/02/76

ORGANIZATION NAKE: NASA/AKES REASEARCH CENTER FAA TECHNICAL CENTER

AGREFENT NUMBER: EA77KAI725 TPD-07-116

11. SPECIFIC CRUECILYES:

DETERMINATION OF THE SAFETY CONTRIBUTION OF HUD TO LARGE TURRO-JET OPERATIONS AND FLIGHT TEST OF HUD IN AGRINCY B-727 AIRCRAFT.

12. BILESICHES:

CURR	DATE	2/81	8/80	18/81	6/82	12/82	6/83	4/85
	DESCRIPTION	SYSTEM INTEG INTO FLT TEST ACRFT	FINAL SIM REPORT (NASA)	FINAL FLT TEST REPORT (NAFFC)	CERTIFICATION GUIDELINES FOR HUD	CERTIFICATION GUIDELINES FOR DUAL HUD	REPORT ON ADVANCED HUD CONCEPTS	CERTIFICATION GUIDELINES FOR ADV. HUD
TIPE	INDICATOR	2. ()	3 C	気 い い ひ	¥.	.	* :	A.

	REPORT DATE: 1/06/81			
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1. PROJECT NUMBER: 073-330-010

2. STARILDAIE: 0/00

4. IIILE: COCKPIT INFO CONTROLS AND DISPIAYS

3. REVISION NUMBER:

0

6. 23GANIZATIOM: ARD-300

5. LANAGER:

9. BEQUIREMENT:

7. TELEPHONE NUMBLE:

CREANIZATION NAME:

10. PARTICIPATING DOTZGOVERNYENT DEGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER:

11. SPECIFIC CBJECTIVES:

ASSESS IMPACT OF DICITAL AVIONICS ON ADVANCED FLIGHT AND ENERGY MANAGEMENT CONCEPTS AND TO PROVIDE IMPROVED AIRCRAFT GUIDANCE.

12. MILESTONES:

DESCRIPTION DEVELOF FLT MGMT SYS TYPE INDICATOR

CUFE DATE 8/84

PROJECT_NUMBER: 075-325-010

1/1 2. SIARI_DAIE: 7. TELEPHONE_NUMBER: 202-426-2072

4. IIIIE: DEVELOP MICROWAVE LANDING SYSTEM (MLS)

5. MANAGER: DOUGLAS VICKERS

OFGANIZATION: ARD-320

3. BEVISION NUMBER:

9. EECUIREMENT: NAT'I PLAN DEV. OF MLS(JUL'71) AND JUNE 1978 UPDATE

10. PARTICIPATING DOT/COVERNMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

DOD(USA, USN, USAF) AND NASA FAR TECHNICAL CENTER TSC ORGANIZATION NAME:

SPECIFIC OBJECTIVES:

AGREENT NUMBER:

DEVELOF A NEW COMBON CIVIL/MILITARY APPROACH AND LANDING SYSTEM THAT WILL MEET THE FULL RANGE OF USER OPERATIONAL REQUIRSMENTS WELL INTO THE FUTURE AND RE SELECTED FOR INTERNATIONAL STANDARIZATION AS A REPLACEMENT FOR THE CURRENT INSTRUMENT LANDING SYSTEM (ILS).

12. MILESTONES:

CURR DATE 2/81 2/80 9/80 4/81 4/82 3/62 2/82 DESCRIPTION
CONTRACT AWARD FOR EXPND.CONF.DSGN.STUDY
CONTPACT AWARD FOR LST(CHIP) DEVELOPMENT
TDP HANDOFF FOR BASIC & SY.COMUN.CONFIG.
TDP HANDOFF FOR EXPANDED CONFISHBATION
DELIVERY OF USI PROTC.RYR. & DRW.PCKGF.
ADVANCED MLS AVIONICS STANDAPDE
COMPLETE DESIGN STUDY FOR EYPANDED SYS INDICATOR TYPE in in 0.0

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1. 2ROJECT_MUBBER: 076-311-010

2. SIARI DAIE: 1/79

3. REVISION NURBER: 7

4. IIIIE: AIRCRAFT ALERI SYSTERS STANDAPDIZATION STUDIES

5. EANAGER: JOHN F. HENDRICKSON

6. QRGANIZATION: ARL-340

9. BEQUINEMENT: LUTTEP AFS-1 TO AED-1 DATED 10/09/74
10. PARTICIPATING DOILGOVERNMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME:

THE END ITEM, STDY RPTS, WILL BE PELIV. TO AFO-1 BY 3/81 TO SUPP.NEW AIRCRAFT CERTIFICATION ROWTS. STUDI RETS. CONTAINING RECOMM. CONCLU. FOR GUIDELINES FOR STANDARDIZATION OF COCKPIT ALERT ANDWARKING & MONITCRING SYS. WILL BE COMPLETED USING INDUSTRY CONTRACT SUPPORT. CREW ACTIVITY LEVEL AND WORKLOAD WILL BE CONSIDERED FOR THE PRICHITIZATION.

TYPE		CURR
INDICATOR	DESCRIPTION	DATE
<u>ا</u>	CONTRACT AWARD	1/79
ic s	FIN RPT - DENO STANDZD ALERT SYS	3/81
20	COMPLETE FEASIBILITY STUDY	9/81
aci.	ISSUE STRNDARD GUIDELINES	10/81

	REFORT PATE: 1/14/81			
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1. PROJECT_NUMBER: 076-312-010

2. SIRRI DRIE: 0/00

7. TELETHONE NUMBEE: 202-426-8605

3. REVISION-NUMBER:

4. IIIIE: AIRBORNI TYSTEMS-COCKPIT INTEPPACE/SYSTEMS

6. QRGANIZATION: APD-340

5. MANAGER: ROGER NEELAND

10. FARTICIPATING DOT/GOYEPNESNI ONGANIZATIONS AND AGREEKENT NUMBERS: 9. REQUIRERENT:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME:

12. MILESTONES:

DESCRIPTION
DATA LINK COCKPIT REGYT DEFINED
SWALMATION OF WX IN COCKPIT - PPT
CCCKPIT KEYROAPD STANDARDIZATION
FLISHT DECK INFO COORD TYE PPOTO DESIGN TYPE INDICATOR N

CURR <u>CATE</u> **6/82** 8/82 10/82 3/83

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1/14/81

1. PROJECT NUBBER: 076-320-010

2. STARI DAIE: 3/79

3. REVISION_MUNBER:

4. IIILE: KLS SERVICE TEST AND EVALUATION PROGRAM (STEP)

6. ORGANIZATION: AFD-320 7. IELEFHONE_NUMBER: 202-426-2072

5. MANAGER: SETHOUR EVERETT

9. BEQUIREMI: STEP PROCERM 11-30-78 AND MIS TRANSITIOF PLAM - 4-9-79

10. PARTICIPATING DOT /GOMERNMENT ORGANIZATIONS AND AGREERENT NUMBERS:

OBGANIZATION MAME: AAF, AFG, AAT, ATF, ALG, ASP REGIONS FAA TECHNICAL CENTER

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

1. DEMONSTRATE CAPABIL. AND RENEFITS OF HLS TO FAA OPS AND USERS. 2. DEVELOP AND VALIDATE OPERATIONAL STANDARDS AND PROCEDUPES TO EASE TRANSITION FROM RED PHASE TO IMPLEMENTATION PHASE.

12. MILESTONES:

CUFR DAIE 3/79	08/11	7/80	10/80	4/81	6/81	9/83	8/82	9/83	4/85	19/h	9/63	9/83	61/6
DESCRIPTION PH I DCA EWY 18 IFSTALLATION COMPLETE	PH I - PHY RWY 17 INSTALLATION COMPLETE	PH I - AIRBORNE RECEIVER CONTRACT AWARD	DE I - DOR RHY 33 INSTALLATION COMPLETE	_	Ξ	PH I - COMPLETE PH I EVALUATION & REPTS.	PH II - COMP DEL/INST BASIC COMD EQUIP	PH II - COMPLETE PH II EVAL. AND REPORTS	COMPLETE FLIGHT SIN 6 TESTS STEP PF II	COMP INSTALL & VERIF MLS IN LARGE JET AC	COMPLETE OPERATIONAL EVAL PH II	WLS - ATC OPERATIONAL PROCEDURES	SOLID STATE MLS PAR SOUPCE, PROD SPECS
TYPE ENDICATOR) ~	۶.	> .	> :	y -	S OF	in D	Ų.	ىم يە	5 :	.	2	a .

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1. PROJECT_MUKBER: 077-330-010

2. SIAPI_DAIE: 1/79

7. IELEPHQNE_NUMBER: 202-426-8605

3 - REVISION NUMBER:

4. IIILE: FLIGHT DECK INFORMATION COORDINATION

6. ORGANIZATION: ARD-340

5. KANAGEE: ROCER NEELAND

9. NECHIREMENT: ECD PROGRAM PLAN

10. PAPTICIPATING DOT / GOVERNHENT ORGANIZATIONS AND AGREEMENT NUMBERS:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME:

AGPFERENT NUMBER:

TO PROVIDE AFS AND AAT WITH COCKPIT INFORMATIOM SYSTEMS DESIGM CRITERIA TO PE INTRODUCED INTO THE REGULATORY ENVIRONMENT.

12. MILESTONES:

CURB	DATE	61/6	3/81	3/81
	DESCRIPTION	COCKPIT INFO ROMIS STUDY COMPRACT	HANDOFF TO OPERATING SERVICES	FIRST REPORT
TYPE	INDICATOR	***	5 .:	57 21 21

	REPORT DATE: 1/06/81		
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1. <u>PROJECT_NUMEER:</u> 077-340-010

6/80 2. SIPET DATE: 7. TELEPHONE_NUMELE: 202-426-8605

0 3. PEVISION NUMBER:

4. IIILE: PILOT FACTOPS (WORKLOAD MEASUREMENT)

6. CREANIZATION: AED-340

5. MANAGER: J. PARK

10. PATICIPATING DOI /GOYERNMENT ORGANIZATIONS AND AGREEMENT NUBEEES: 9. BEQUIREMENT: SUPPORT FOR AUMINISTRATORS HUMAN FACTORS PROGRAM

AF SYST CRD/ASD/AF FLT DYN LAB WRIGHT STATE UNIV./AEROSFACE MEDICINE ORGANIZATION NAME:

CONTR. F33615-80-K-3627 IAA DOT-FA70WAI-173 AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

THE GEJECTIVE OF THIS INITIAL PROGRAM IS TO DOCUMENT AIRCREW WORKLOAD TECHNIQUES.THIS PROG HAS 3 PHASES.TASK 1 WILL CATALOG SUCCESSFULLY APPLIED MEASURES OF WORKLOAD IN AIRCRAFT CERTIFICATION. TASK 2 WILL DOCUMENT MEASURES NOW AVAILABLE AND READY FOR APPLICATION. TASK 3 DELINEATES MEASURES THAT DAIST IN CONCEPT, BUT NEED FURTHER RESFARCH AND DEVELOPMENT FOR REDUCTION TO PRACTICE.

12. MILESTONES:

Ξ	TYPE					CUFR
IGKI	INDICATOR	DISCRIPTIO	<u>~!</u>		DESCRIPTION	DATE
9 2	:1:	VORKIOND	MEAN	TECH	USED FOR CERTIFICATION	1/81
3 2	:::	WORKIOAD	YEAS	TECE	WORKLOAD MEAS TECH (UNPROVEN)	6/81
>	3 :	CORKIOAD	MERS	TECH	WORKLOAD MEAS TECH FOR FUTURE CERTIFICATION	18/6

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1. PROJECT_MUMBER: 081-431-010 2.

2. START DATE: 6/73

3. REVISION_NUMBER: C

4. <u>IIIIE</u>: CRASH FIRE RESCUE EQUIPMENT/AGENTS 6. <u>Organization</u>: ard-500

S. MANAGER:

9. BEULTREKENT:

7. TELEPHONE_NUMBER:

10. PARTICIPATING DOT/GOVERNMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER:

ORGANIZATION NAME:

THE OPTECTIVE OF THIS PROJECT IS TO DETERMINE THE ABILITY OF NEW FORMULATIONS OF FIREFIGHTING EQUIPMENT AND FORM AGENTS TO CONTROL AND EXTINGUISH FULL SCALE FUEL SPILL POOL FIRES. 11. SPECIFIC OBJECTIVES:

CURR DATE 9/60	08/6	9/82	9/82	9/82	8/83	12/83
DESCRIPTION SET CIVIL AND MIL APPIS	EVAL ON-ROARD FOAM/WATER ACFT CAB FIRE EXTING SYS	TEE STATE OF ART FIRE FIGHTING AGENTS	CER REQUIREMENTS DEFINED	COMPLETE TEST BED INSTALLATION	FEASIBILITY OF SPRINKLER SYS FED RY CFR	RECOMMENDATION FOR CFR TRAINING POMTS
TYPE LMDICATOR	7:	h :	≱1	> :-	9 23	> :

	REPORT DATE: 1/06/81			
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1. 280JECT_NUMBER: 082-420-010

2. SIRRI_DAIE: 6/74

7. TELETHONE_NUMBER: 202-426-9396

3. KEVISION_NUMBER:

4. ZIZLE: ATREOGT PAVEMENT

S. MANAGER: H. TOMITA

6. JESANIZATION: ARD-530

* TREFERENTATE .6

10. PARTICIPATING DOT/GOVERNESNT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION MAME:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

PROVICE SPECIALIZED RESEARCH INTO DEVELOEING NEW TECHNIQUES FOR NON-DESTRUCTIVE TESTING OF AIRPORT PAVEMENT; TO UPGRADE PAVEMENT DECIGN CRITERIA AND CONSTRUCTION STANDARDS. THE FAA TECH CTR WILL SERFORM TEE AND PACVIDE TEST REPORTS.

CURR	DATE	7/80	11/80	12/80	5/81	6/83	n8/6
	DESCRIPTION	ARPT PAVEMENT PERFORMANCE ANALYSIS	POROUS FRICTION FOR PORTLAND CEMENT	NDT OF ARPI PAVEMENT FOR LGT ACFT	EXPANSIVE SOILS	IMPROVED TECHNIQUES FOR GPANULAR MATERIALS	FRICTION LEVELS BETWEEN PAVEMENT LAYERS
TYPE	INDICATOR	» :	>:	>	> :	'8 2	>.

	REPORT DATE: 1/06/81			
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1. EROJECT_AJMEEE: 082-431-010

6/72 2. START DATE:

3. REVISION NUMBER:

4. IIILE: RUNHAY SURFACE TRACTION

6. ORGANIZATION: AND-520

5. MANAGEE: H. D'AULERIC

• BEGUIRERENT • 6

7. TELEPHONE NUMBEE: 202-426-3664

ORGANIZATION NAME:

10. PARTICIPATING VOT ZGOVERNMENT CRGANIZATIONS AND AGREEPENT NUPBERS:

AGREENET NUMBER:

11. SPECIFIC DEJECTIVES:

TO DEVELOP RUNGAY SYCOVE CONFIGURATION WHICH WILL BE COST EFFECT-IVE; TO DEVELOP BETHODS OF INSTALLING GKOOVES IN EXISTING AND NEWRUNWAYS AND TO INVESTIGATE OTHER RUNWAY SURFACE MATERIALS FOR COST EFFECTIVENESS. FAA TECH CIR WILL PERFORM TEE AND PROVIDE TEST EEPOKTS.

CURR DATE 10/80	9/9	11/82	12/83
DESCRIPTION OPPINE CONFIG FOR PORTLAND CEMENT	3" GROOVE SPACINGS FOR PORT CEM CONCRETE RUNMAYS	PERFORMANCE OF PAVEMENT GROOVES	PRAKING PERFORMANCE EVALUATION
INDICATOR	»¹	3	> :

REPORT DATE: 1/06/81 ٥ H 0 7 C 7 Z TECHNICAL PROGRAM DOCUMENT j., 3 × × SEARCH ш œ

1. PROJECT_KUMBER: 122-111-010

3. KEVISION NUBBER:

9/13

2. START DATE:

4. IIILE: SURVEILLANCE SYSTEM IMPROVEMENTS

7. TELEPHONE NUCEFR: 202-426-9360

S. MANAGER: JARES SHANNON

6. ORGANIZATION: ARD-111

9. BEQUIRENENT: FAA-ED-12-28

10. PARTICIPALING DOIZCOVERNBENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: FAAIC

AGREEMENT NUMBER: TPP 21-211

11. SPECIFIC GBJECTIVES:

MAKE AH EN ROUTE SYSTEM TRACKER MORE RESPONSIVE TO AIRCRAFT TURN MANUVERS THBOUGH THE USE OF RANGE RATE DATA FROM MOVING TARGET DETECTION (MTD) EQUIPMENT, IMPROVED PESFONSE WILL IMPROVE PERFORMANCE OF CONFLICT ALERT FUNCTION AND RELATED FUNCTIONS.

12. MILESTONES:

DESCRIPTION FART ON SYS IMPACT COMP (EI)

CURR DAIE 6/81

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	4	REPORT DATE: 1/06/81	1/06/81
* TECHNICAL PROGRAM DOCUMENT	*		
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1. ZBOJECT_NUMBEE: 122-112-020

2. START_DATE: 10/76

7. IELEPHONE MUMBEE: 202-426-9372

3. REVISION NUMBER:

4. IIILE: CONFLICT RESOLUTION PDVISORY

GEGANIZATION: AND-112 9

5. MANAGER: PRESTON MARTIN

9. BEQUIRENES: FAA-ED-12-28

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FARTICIPATING POIZGOVEENMENT OPGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT LUMBER: TPD RD-140

ORGANIZATION NAME: ABD-140 (GARY ELLISON)

SPECIFIC DEJECTIVES: 11.

PADVIDE COMPUTER ASSISTANCE IN RESOLVING POTENTIAL CONFLICTS. WHEN LOSS OF RADAP SEFERATION MINIMA.
IS ABOUT TO OCCUM. USING INFO FROM THE CA FUNCTION THAT A VIOLATION OF SEPERATION MINIMA IS ABOUT TO
OCCUM, THE FUNCTION WILL MAKE USE OF FLIGHT PLAN DATA AND TRACKING INFO TO PRESENT TO THE CONTROLLER.
I SUCCESTED RESOLUTION TO AVOID THE POTENTIAL CONFLICT WITHOUT CREATING ANOTHER.

HILESTONES: 12.

CURR	DATE	11/80	3/81	6/81	6/81	68/9
	DESCRIPTION	CONFLICT RESOLUTION RFP COMPLETED	TECHNICAL EVALUATION OF PROPOSALS COMPLETE	COMPLETE NEGOTIATIONS WITH CONTRACTOR	C/P CONTRACTUAL ACTION FOR SOFTWARE COMP	TECH DATA PKG COMPLETE (EI)
TYPE	INDICATOR	U	Ç,	S.	S.C	KC 51

	REPORT DATE: 1/06/81			
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1. EROJECT_NUMBER: 122-112-050

1/76 2. SIARI DAIE: 7. TELLPHONE NUMBEE: 202-426-9372

3. KEYISION NUNBER:

4. IIILE: EN ROUTE METERINS

6. ORGANIZATION: ARD-112

5. MANAGER: PRESTON MARTIN

9. BEQUINERENT: FAA-ED-12-2B

10. PAHIKCIPATING DOIZGONEENEENI OEGANIZATIONS AND AGREEMENI NURBEES:

AGREEMENT NUMBER: TPD 21-211 TFP ED-140

ORGANIZATION NAME: FARTC AND-140 (EOFERT ERMIN)

11. SPECIFIC ONJECTIVES:

PROVIDE CONTROLLER ADVISORIES TO ABSORE DELAYS IN A FUEL CONSERVATIVE MANNEE. THE PRIMARY OBJECTIVE OF THE EN ROUTE METFRING FUNCTION IS TO ORGANIZE THE TRAFFIC AT HIGHER ALTITUDES IN THE EN ROUTE AIRSPACE SUCH THAT CONGESTION AND DELAYS IN THE TERMINAL AREA WILL BE KEPT TO A MINIMUM.

12. ELLECTONES:

CULR	DATE 12/80		6/81		8/82
	DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE	AAI-500 DELIVERS ABD2.12A COMPOCE TO ARD-100	AAT-500 DELIVERS BASELINER A3D2.12A SYS TO ARD-100	E/R METERING Q/A TESTING COMPLETE	THEFTER DATA DACKAGE COMPUTER CELLS
EALL	THOTOTOR	• : > :	5	O ii	(** €. 36

	REPORT DATE: 1/06/81		
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1. PROJECT NUMBER: 122-112-06D

7/75 2. START DATE: 7. TELEPHONE MUMBER: 202-426-9372

• 3. EEVISION NUBER:

> 6. ORGANIZATION: ARD-112 4. TITLE: CHA

DELIMAN S. MAMAGER: MICHAEL

9. BEQUIREMENT: FAA-ED-12-2B

10. PARTICIPATING DOT/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: FAATC, ANA-140 (LOU BONA) ARD-140 (LUTHER HC CLELLAM)

AGREEMENT NUMBER: RD-140

TPD FD-140

11. SPECIFIC OBJECTIVES:

9 THE EN EQUTE ATC PPOGRAM WILL BE ENHANCED TO AUTOMATICALLY FORMULATE AND GENERATE VARIOUS CLASSES HESSAGES TO SUITABLY EQUIPPED AIRCRAFT VIA A TWO-WAY DIGITAL DATA LINK, AN ADDITIONAL PACKAGE WAS DEVELOPED AND EVALUATED IN FY-76. A SECOND DEVELOPMENT EFFORT IS AIMNED AT PROVIDING A DATA LINK CONFIRMATION OF CONTROLLER-ASSIGNED ALTITUDES, THIS CAPAFILITY IS PEING DEVELOPED AS PART OF THE DABS SURVEILLANCE PROCESSING (BUILD II) PROJECT, AN EN ROUTE ATC PROGRAM TO MEET THE REQUIREMENTS VILL SE DEVELOPED AND EVALUATED, THE RECUIREMENTS SOFTWARE.

12. BILESTONES:

DESCRIPTION COMPLETE CONTRACTUAL ACTION COMPLETE ATC SYSTEM TESTING COMPLETE EN ROUTE SOFTWARE TDP (EI) INDICATOR TYPE

CURR DAIE 11/82 9/84 11/84

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REPORT DATE:

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STRET DETE: 5 PROJECT_NUMEER: 122-113-010

4/74

3. REVISION NUCBER:

4. TILLE: STAPS

5. MANAGER: BRIAN ANDREWS

OPCANIZATION: ASD-110

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7. IELECHONE NUMBER: 202-426-9340

BECUIREMENT: FAA-ED-12-29 AND SYS ROMT STATEMMENT FOR FTABS

PARTICIPATING_DGT/SOVERNTENT_ORGANIZATIONS_AND_AGREEXENT_NUMBERS: 10.

OPGANIZATION NAME: APD-140 FAATC

AGREEMENT NUMBER: TPD PD-140 TPP 21-282

SEFCIFIC CBJECTIVES:

TO DEVELOP AN ELECTRONIC TABULAR DISELAY SUBSYSTEM THAT WILL FILMINATE THE NEED FOR USING PAPER FLICHT PROGRESS STRIPS AND INIMIZE REPUTITIVE AND TIME CONSUMING CONTROLLER INPUT ACTIONS. THE GOAL IS TO IMPROVE DATA HANDLING FFFICIENCY AND ACHIEVE GAINS IN FRODUCTIVITY, SALETY AND COST BENEFITS.

12. MILESIONES:

DESCRIPTION

TARS CONTRACT AWARD (ENS MODFL)

HADDWARD DELIVERY TO FAATC

CCC INTEGRATION TEST COMPLETE

ETASS SYSTEM TEE COMPLETE

ETABS TOP (EI) INDICATOR TIFE :/)

CUPR DATE 1/79 11/81 2/82 5/63

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122-113-030 PROJECT NUMBER:

4/76 STABLT CATE: 7. TELLEFUGNE_NUMBEFR: 202-426-9360

REVISION NUMBER:

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1/06/81

REPORT DATE:

SUPSYSTE 4. IIILE: RADAR DISPLAY RECORDING/PLAYPACK

5. MANAGER: PARKER HARRIS

6. ORGANIZATION: AFD-113

9. BEQUIREKENT: FAA-ED-12-28 AND 9550 AAT-100-31

10. PARTICIPATING DOT/GOYERNMENT ORGANIZATIONS AND ACEREMENT NUMBERS:

AGREEMENT NUMBER: TPP 12-224

SPECIFIC OBJECTIVES:

ORGANIZATION NAME: FAATC, ACT-230 (P. GUSTAFSON)

A DIGITAL RECORDING SUBSYSTEM WILL BE DESIGNED, FABRICATIL, TESTED AND EVALUATED BY FAATC TO PERMIT THE RECORDING AND PLAYBACK OF ALL DATA TRANSKITTED TO ALL PVD CONSCLES. FAATC WILL DEVELOP, FABRICATE, TEST AND EVALUATE AN ENGINEERING PODFL AND DEVFLOP PRODUCTION SPECIFICATIONS AND FINAL DESIGN DATA.

12. MILESTONES:

DESCRIPTION FINAL REPORT TECHNICAL DATA PACKAGE (EI) INDICATOR K TYPE in

CUER DATE 6/61 4/80

REPORT DATE: ပ 0 0 H TECHNICAL PROGRAM DOCUMENT <u>-</u> ü z E A R C H (V) (e) œ

1/06/81

2. START_EATE: 1. EROJECT_NUMBER: 122-113-050

3. REVISION_NUMBER: 1/80

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4. IIIIE: FARTS DISPLAY RECORDING/PLAYBACK SURSYSTE?

6. ORGANIZATION: ARD-113

5. KANAGER: PARKER HARRIS

7. TELEPHONE NUMBER: 202-426-9360

9. REQUIREMENT: 9550 AAT-100-43

OEGANIZATION NAME: FAATC, ACT-230 (P. GUSTAFSON)

10. FARTICIPATING DOI/GOYERMENT ORGANIZATIONS AND AGREEMENT NURBERS:

AGREEMENT NUMBER:

11. SPECIFIC GBJECTIVES:

MAFEC WILL DESIGN, DEVELOF AND FARRICATF A RPEADBOAPD MODEL FARTS DISPLAY RECONDING/PLAYBACK SUBSYSTEM. THE SUBSYSTEM WILL BE INTERFACED WITH THE EARTS EQUIPMENT AT NAFEC. IT WILL RECOND/PLAYBACK ALL FARTS PISPIAYS. THE RECORDING WILL PF DIGITAL AND THE SYSTEM WIL BE TRANSPAPENT TO THE NORMAL OPERATION. DEMONSTRATION AND TESTING WILL PE DONE AT NAFEC.

12. MILESTONES:

CURR	DATE 7/80 1/81 9/81 4/83
	TE
	DESCRIPTION SYSTEM DESIGN COMPLETE RECORDER CONTRACT SIGNED SYSTEM FABRICATION COMPLETE TECH DATA PACKAGE (EI)
	RACT STATION
	DESIGN PESIGN R CONT FABRIC
	DESCRIPTION SYSTEM DESIGN COMPLETE RECORDER CONTRACT SIGNS SYSTEM FABRICATION COMI
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1/06/81 REPORT DATE:

PROJECT NUMBER: 122-113-060

5/ec 2. STARI DATE:

FEVILLION NUMBER:

IIILE: ETABS DISPLAY RECORDING/PLAYPACK STUDY

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OBGANIZATION: ARE-113 •

5. MANAGER: P. HARRIS

REQUIREMENT: 9550 AAT 100-45 6

7. TELEPHONE NUMBER: 202-426-9360

DAGANIZATION NAME: ACT-230, P. GUSTAFSON

10. PARTICIPATING DOIXGOVERNMENT ORGANIZATIONS AND AGREEMENT NUMEEKS:

AGREEMENT NUMBER: NONE

SPECIFIC OBJECTIVES: 11.

FAA TECHNICAL CENTER MILL PRODUCE A STUDY AND ARALYSIS OF THE INTEPFACE NECESSARY TO FECORD LIABS DATA ON THE EN ROUTE PVD RECORDING SYSTEM, THE STUDY WILL INCLUDE COST ESTIMATES, REQUIRED HARDWARE AND LYPACT ON THE EN ROUTE RECORDING SYSTEM, STUDY WILL INCLUDE ANALYSIS OF HARD COPY PRINTOUT OF FECORED ETARS DATA DURING PLAYBACK, ALTERNATE RECOPCING TECHNIQUES WILL BE INVESTIGATED IF RECORDING ON EN ROUTE SYSTTEM IS NOIT FEASIBLE OF COST EFFECTIVE.

MILESTONES: 12.

DESCRIPTION STUDY & ANALYSIS COMPLETE (FI) INDICATOR

CUER DATE 1/82

REPORT DATE: 1/06/81 TECHNOICC TECHNICAL PROGRAM DOCUMENT N N 出しまる国のよる ****

1. EROJECT_NUMBER: 122-114-010

2. STARI DAIE: 6/77

3. REVISION NUMBER:

4. IIILE: HARDWARE MEASUREMENT AND ANALYSIS

6. ORGANIZATION: ARD-111

5. MANAGER: ARTHUR F. CHANTKER

9. REQUIREMENT: FAA-ED-12-25, 9550 AAT 500-22, INCREASE ALLOHABLE EDR SITES FOR KAS

10. FARTICIPATING DOT/COVERNHENT ORGANIZATIONS AND AGREEMENT NURRERS:

7. IEIEEHONE-NUMBER: 202-426-0960

ORGANIZATION NAME: ARD-140 (C. NICHOLS)

AGREEMENT NUMBER: TPD RD-140

11. SPECIFIC OBJECTIVES:

MEASURE AND EVALUATE THE PERFORMANCE OF EN ROUTE HARDWARE AND SOFTWARE DEVELOPMENT EFFORTS TO ASSESS THEIR COMPUTER RESOURCE RECUIREMENTS AS A FUNCTION OF NEW AUTOMATION ENHANCEMENTS AND THE ATC ROLE.

12. BILESTONES:

DESCRIPTION CCC/ETABS HEASUREMENT PLAN (SPA") COMPLETED INDICATOR

CURR DATE 3/81

REPORT DATE: ڻ 0 H 0 z TECHNICAL PROGRAM DOCUMENT ¥ U ωį H a z « A F C H **ند**ا v <u>jui</u>

1. PROJECT_NUMBER: 122-114-040

REVISION NUMBER: œ

START DATE: 10/77

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4. IIILE: CONTROLLER PERFORMANCE MEASUFEMENT

F. CHANTKER

6. ORGANIZATION: ARD-111

7. TELEPHONE NUMBER: 202-426-0960

9. REGUIREMENT: FAA-ED-12-2B

MANAGER: ARTHUR ů.

> 10. PARTICIPATING DOTZGOVERNHENT ORGANIZATIONS AND AGREEMENT NUMBERS: OBGANIZATION NAME: TSC (DTS-532) FAATC (ACT-230)

AGREEMENT NUMBER: PPA FA-068

SPICIFIC OBJECTIVES:

TO ASSESS THE RELATIVE IMPROVEMENT IN THE PERFORMANCE OF THE AIR TRAFFIC CONTROLLER DUE TO THE ADDITION OF NEW SCRTWAPE AND HARDWARE DEVELOPMENTS AND ENHANCEMENTS. THIS CONTROLLER PERFORMANCE DATA WILL CONTRIBUTE TO THE INFORMATION CURRENTLY AVAILABLE FOR MAKING IMPLEMENTATION DECISIONS TO IMPLEMENT IN THE OPERATIONAL ATC SYSTEM.

EILESTOMES: 12.

DESCRIPTION ETARS TO COMPLETED DRAFT RPT ETARS COST/RENEFIT STUDY COMP. INDICATOR TYPE

CURR <u>PATE</u> 5/82 9/82

		:: 1/06/81		
		REPORT DATE: 1/06/81		
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1. EROJECT NUMBER: 122-115-010

7/76 2. START DATE:

3. REVISION NURBER:

4. IIILE: DABS PROCESSING IN THE EN ROUTE SYSTEM

5. MANAGER: MICHAEL DELIBAN

7. TELEPHONE NUMBER: 202-426-9372 9. BEQUIRENENT: FAA-ED-12-28 AND DABS PROGRAM PLAN 6. OKCARIZATION: ARD-112

10. PARTICIPATING DOIZCONERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: ARD-140 (LUTHER MC CLEILAN) FAATC (LOU BGNA)

AGPTEMENT MUMBER: TPD ND-140 TPD 03-110

11. SPECIFIC OBJECTIVES:

MODS WILL BE ACCOM. IN 2 SEQUEN. DEV. ACTIVITIES, SCHEDULED TO PEPHIT TESTING PRIOR TC HANDOFF TO PFF OF A TDP FOR THE DAES SURV. BUILD I PROVIDES FOR TRACKING & DISPLAY OF DAES SURV. DATA & COMM. WITH THE DABS SENSORS THRU THE FRON-END PROCESSOR. BUILD II ADDS SEVERAL FUNCTIONAL ENHANCEMENTS TO BUILD I, INCLUDING USE OF THE PARS DATA LINK FOR ATC MESS: GES.

12. MILESTONES:

TYPE		CUPR
INDICATOR	DESCRIPTION	DATE
	DABS/ATC TECHNICAL TEST REPORT	6/81
	OPER SEPVICES * REQUIREMENTS DEFINED	10/80
	CONTRACTUAL ACTION	2/81
	ON TESTING COMPLETE	3/82
×	DABS/ATC TEST REPORT	12/82
	ENROUTE SOFTWARE TOP (EI)	1/83

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	REPORT DATE: 1/06/81			
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1. EROJECT_NUMBER: 122-115-020

2. SILBI DAIE:

7. TELEPHONE_NUMBER: 202-426-9372

3. REVISION NURBER:

4. IIILE: ATARS PROCESSING 6. OBGANIZATION: ARD-112

5. MANAGER: PRESTON MARTIN

9. REQUIREMENT: FAA-ED-12-2B

10. PARTICIPATING DOT/GOVERNMENT CRGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: A RD-140

ACREEMENT NUMBER: TPD RD-140

11. SPECIFIC OBJECTIVES:

THIS EFFORT WILL DEVELOP EN ROUTE SUPPORT AND ATC SOFTWAKE REQUIRED FOR TEST AND EVALUATION OF THE ATARS FUNCTION AND WILL PROVIDESPECS FOR FOUTE SOFTWARE NECESSARY FOR ATARS IMPLEMENTATION. A DEVELOPENT, TEST, AND EVALUATION EFFORT WILL RE PERFORMED TO ASESS THE TECHNICAL AND CPERATIONAL SUITABILITY OF THE INTERFACE BETWEEN THE EN POUTE ATC SYSTEM AND ATARS AS IT HAS BEEN REDEFINED.

CURR	DATE	7/80	11/80	9/81	5/82	7/82	1/83
	Description	FUNCTIONAL DESCRIPTION	COMPLETE ATÉRS CONTRACTUAL ACTION	IRS DEA TESTING COMPLETE	SYSTEM TESTS COMPLETE	TEST REPORT COMPLETE	SOFTWARE PRELIMINARY TDF (EI)
TYPE	INDICATOR DES	RC FU	8	H AT	IK K K	EL N E	FC S AT

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1. PROJECT_NUBBER: 122-115-040

2. START DATE: 10/78

7. IELEPHONE NUMBER: 202-426-9372

5. MANAGER: PRESTON HARTIN

4. IIIE: ETABS SOFTWARE INTERFACE DEVELOPMENT

6. ORGANIZATION: ABD-112

9. BEQUIRERENT: FAA-ED-12-28

10. PARTICIEATING DOT/GOVERNHENT ORGANIZATIONS AND AGREENENT NUMBERS:

AGREENENT NUMBER: TPD RD-140

ORGANIZATION NAME: ARD-140 (JOHN FICKLER)

11. SPECIFIC OBJECTIVES:

THIS EFFORT FROVIDES FOR DEVELOPMENT OF SOFTWARE WHICH WILL TEST THE INTERFACE BETWEEN THE ETABS EQUIPMENT AND THE FAATC SSF. TESTING RESULTS WILL BE USED TO DEVELOP A SPECIFICATION FOR NAS EN ROUTS SOFTWARE CHANGES WHICH WILL BF REQUIRED FOR THE NATIONAL IMPLEMENTATION OF ETABS.

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×	INTERFACE TESTING COMPLETE	1010
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1. PROJECT NUMBER: 123-130-01C

2. SIARILDAIE: 10/79

3. REVISION MUMBER:

4. IIIIE: COPPUTER SCITUARE DEVELOPMENT SUPPORT (ARD-140)

6. CEGANIZATION: ARD-131

5. MANAGER: T. L. HANNAN

9. REQUIREMENT: AND-140 MANAGEMENT PLAN # 123-130-118

10. FARTICIPATING DOI/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

7. TELEPHONE NIMBEE: 202-426-9324

ORGANIZATION NAME: ARD-140

AGREEMENT NUMBER: TFD RD-140

11. SEECIFIC CEJECTIVES:

IDENTIFY, COLLECT, AND ANALYZE CUBRENT SYSTEM AND SYSTEM ENHANCEMENT DOCUMENTATION AND PRODUCE A COMPLETE, CONSISTENT SYSTEM DESCRIPTION. ALSO PERFORM STATISTICAL ANALYSES OF 9020 SYSTEM DEMAND VERSUS CAPACITY DATA COLLECTED FROM ARTIC'S.

12. MILESTONES:

CURR DATE 10/80 6/61 DESCRIPTION FINAL SYSTEM DESCRIPTION COMPLETE ANTIC UTILIZATION ANALYSIS (FI) INDICATOR TYFE S

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1. EROJECT_NUMBER: 123-131-01C

START_DATE: 10/79 .

REPORT DATE: 1/06/81

4. IIILE: PROGRAM PLANNING AND SYSTEM ENGINEERING (MITRE)

3. EEVISION NUMBER:

6. QAGANIZATION: ARD-132

5. MANAGER: E. F. CORINI

9. REQUIREMENT: SRC LETTER OF 9/21/78

7. TELEFHONE NUMBER: 202-426-9324

10. PARTICIPATING DOT/GOVERNMENT OPGANIZATIONS AND AGREEMENT NUMEERS: ORGANIZATION NAME: MITRE

AGREEMENT NUMBER: FY-80 TOS

11. SPECIFIC OBJECTIVES:

TO ARALYZE THE IMPACT OF PLANNED AUTOMATION ENHANCEMENTS ON THE ARTCC COMPUTER (9020) AND TO STUDY ALTERNATIVES TO OFFLOAD THE PRESENT SYSTEM.

12. MILESTONES:

DESCRIPTION SYS ANALYSIS OF OFFLOADING ALTEFNATIVES (EI) TYPE INDICATOR

CURR DATE 10/80

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	REPORT DATE: 1/06/81			
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1. PROJECT_MUMBER: 123-132-02C

2. START DATE: 10/79

7. TELEPHONE NUMBER: 202-426-9324

3. REVISION NUMBER:

4. IIILE: VALIDATION AND VERIFICATION (VEV)

5. MANAGER: T. HANNAN

6. ORGANIZATION: ARD-131

9. REQUIREMENT: SRG LETTER OF 9/21/78

10. PARTICIPATING DOT ZGOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT MUMBER:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME:

REFORM IMPERENDENT ANALYSIS OR RECUIREMENTS DESCRIPTIONS AND PREPARE A COMPLETE AND CONSISTANT SYSTEM SPECIFICATION, ADDITIONALLY, PREPARE TECHNICAL REFORTS PECOMMENDING APPLICATION OF DESIGN, CONSTRUCTION, AND QUALITY STANDARDS...

12. MILCSTOKES:

CURR	DATE	08/6	9/80	11/80	12/80	12/80	1/81	3/81	9/61
	<u>Description</u>	INITIAL REQUIREMENTS DATA BASE COMPLETF	COMPLETE SYSTEM DESIGN VERIFICATION	COMPLETE PRODUCTION OF SYSTEM DESCRIPTION	COMPLETE PRODUCTION OF DRAFT REPLACEMENT SYS SPEC	COMPLETE FINAL REPORT ON ACCEPTANCE TEST PLAN	COMPL PROB SYS LANG MODEL OF DEAFT REPL SYS SPEC	COMPL VERIFICATION OF DEAFT PEFL SYS INTERF SPEC	COMP PROD OF FINAL REPL SYSTEM SPECIFICATION (EI)
TYPE	INDICATOR	3 63	>3	> :	S ON	5 :	>	E :	91 D

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1. ERGJEGT_EUMBER: 123-132-03C

2. SIRRI DAIE: 10/79

7. IELEPHOME_MUMBLE: 202-426-9324

3. EEVISION_NURBER:

4. IIILE: SYSTEM ENGINEERING AND TECHNICAL ASSISTANCE (SETA)

ORGANIZATION: ARD-132

5. MANAGER: E. F. CORINI

9. BEQUIREMENT: SAG LETTER OF 9/21/78

10. PARTICIZATING DOTZGOVERNHENT ORGANIZATIONS AND AGREEBENT NURBERS:

AGRFERENT NUMBER:

ORGANIZATION WAKE:

11. SPECIFIC_OBJECTIVES:

THIS EFFORT WILL COVER (1) REQUIREMENTS SPECIFICATION AND ALLOATION; (2) COST, SCHEDULE AND RISK ANALYSES, (3) PFRERNANCE ANALYSS, SIMULATIONS AND HODELING, (4) FEASIBILITY AND TRADE STUDIES AND (5) DEVZLOPHENT OF TECHNICAL MANAGEMENT STANDARDS AND PRACTICES WHICH ARE REQUIRED TO DEFINE THE SYSTEM NEEDED FOR ATC COMPUTER REPLACEMENT.

12. MILESTONES:

DESCRIPTION SETA CONTRACT AWARD INDICATOR TYPE

CURR DATE 6/81

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	REPORT DATE: 1/06/81		
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2. STAPT DATE: 10/60

7. IELEPHONE NUMBER: 202-426-9360

IIILE: SECTOR SUITE DEVELOPHENT

3 - PEVISION NUMBER:

OBCANIZATIOM: ARD-113

5. MANAGER: J.D. EDGBERT

9. BEQUINENEME: 9550 AAT-100-47, ENROUTE SECTOR CONFIGURATION

10. PARTICIPATING DOT /GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER:

FAA TECHNICAL CENTER ORGANIZATION NAME: HITEE

FY-81 TOS

SPECIFIC OBJECTIVES: :

A HUMAN FACTOR STUDY WILL BE INITIATED TO IDENTIFY ALTERNATIVE ARRANGEMENTS OF THE VAPIOUS TIFES OF DISPLAYS NFEDED AT THE ENROUTE CONTROL SECTORS. THE ORJECTIVE WILL BE TO DERIVE A OPTINUM SECTOR ARRANGEMENT IN TERMS OF VISABILITY OF DISPLAYED DATA AND ACCESSIBILITY OF INPUT/OUTPUT DEVICES. AN ANALYSIS OF CURPENT AND PROJECTED DISPLAY PRESENTATION REQUIREMENTS WILL BE CONDUCTED IN CLOSE COORDINATION WITH THE WORK BEING DONE BY OSEM IN RESPONSE TO 955C ART-500-21, HUMAN FACTORS STUDY ON TYPE AND AMOUNT OF DATA VIA THE PVD. THE FESULTS OF THIS ANALYSIS WILL BE AFPLIED TO DESIGN CONCEPTS

MILES TONES: 12.

<u>PSSCRIPTION</u>
ROCK-UP CONFIGURATIONS DEFINITION
RANAGEMENT DEMONSTRATION
9550 COMPLETION REPORT (EI) INDICATOR 90

CURR DATE 11/80 7/81

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1. EROJECT BURBER: 123-133-01C

2. START DATE: 4/81

7. TELEPHONE NUMBER: 202-426-9324

3. REVISION MUNBER:

4. IIILE: COMPUTER REPLACEMENT SYSTEM DESIGN 6. ORGANIZATION: ARD-130

S. EANAGER: B. E. PERIE

9. AEQUIREMENT: SRG LETTER OF 9/78

10. PARTICIPATING DOI /GOYERNTENI ORGANIZATIONS AND AGREEZENT NUBERS:

ORGANIZATION WANE:

AGREERENT NUMBER: HORE

11. SPECIFIC OBJECTIVES:

TO DESIGN THE REPLACEMENT FOR THE EN ROUTE ATC AUTORATION SYSTEM BY MEANS OF DEVELOPMENT CONTRACTORS.

TYPE		CURR
INDICATOR	DESCRIPTION	DATE
x	TSESC I	6/81
U)	COORDINATED SPECIFICATIONS & RFP	12/81
AC S	AMARD COMTRACTS: ALTERNATIVE CONCEPTS	12/82
· **	TSARC II	6/63
: st	AWARD CONTRACTS: DSGW & CRITICAL SUBSYSTEM DENO	9/83
. 🗪	TOWN II	9/85
i tec	AWARD CONTRACT(S): FULL SCALE DEVELOPMENT	12/85
æ	HAND OFF TO ARF	

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1. PROJECT_NUMBER: 124-111-030

2. SIARI_DAIE: 1/80

3. REVISION NUMBER:

4. IIILE: 25-INCH CATHODE-RAY TUBE SAFETY TESTS

5. HANAGER: A. J. KOPALA

6. OBGANIZATION: ARD-113

9. REQUIREMENT: FAA-ED-12-2B

10. PARTICIPATING DOT / GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

7. TELEPHONE_NUMBER: 202-426-9360

ORGANIZATION NAKE: FAATC, ACT-230

AGREEMENT NUMBER: TPD 12-226

11. SPECIFIC OBJECTIVES:

TEST AND EVALUATE SAMPLES OF THE 25 INCH RECTANGULAR, ALL-GLASS CATHODE PAY TUBE (CRT) WHICH IS TO BE USED IN THE ELECTRONIC TABULAR DISPLAY SUBSYSTEM (ETARS).

12. HILESTONES:

DESCRIPTION CONTRACT AWARD SUBMISSION OF FIRML REPORT (E/I) TYPE TROICATOR IN DICATOR

CURR DATE 4/80

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1. PROJECT HUMBER: 124-111-040

8/80 2. START DATE:

3. REVISION NUMBER:

4. IIIIE: DARC RADAR DISPLAY HARKERS

6. OBGANIZATION: ARD-113

5. MANAGER: ALAN J. KOPALA

9. BEQUIRENENT: 9550 AAT 100-51

7. TELEPHONE_NUMBER: 202-426-9360

10. PARTICIPATIES DOT 200 VERHUENT ORGANIZATIONS AND AGREEMENT NUMBERS: CRGANIZATION NAME: AAT-120, JOHN R. RYAN

AGREEMENT NUMBER: NONE

11. SPECIFIC OBJECTIVES:

TO DETERBINE A METHOD FOR DEPICTING AIRCRAFT IDENTIFICATION DATA ON PLASTIC "SHRIMPBOAT" RADAR DISPLAY HARKERS WHEN VIEWED ON A PLAN VIEW DISPLAY (PVD) IN THE DIGITAL MODE OF THE DIRECT ACESS RADAR CHANNEL (DAKC). THE FIFDINGS AND RECOMMENDATIONS WILL BE PROVIDED IN A TECHNICAL MEMORANDUM TO

12. MILESTONES:

DESCRIPTION DELIVERY OF TECH MEMO TO AAT (EI) TYPE INDICATOR

CURR DATE 10/80

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1. EROJECT_NUBBER: 132-402-010		******	***********	*********

1. EROJECT_NUMBER: 132-402-010

2. START DATE: 1/79

3. REVISION NUMBER:

4. IIIE: FLIGHT SERVICE AUTOMATION SYSTER ACQUISITION

7. IELEPHONE NUMBER: 202-426-9357 6. QRGANIZATION: ARD-403

5. MANAGER: ROBERT BERNARD

9. BEQUIRELENT: OST/FAA STUDY 12/74; FSAS MASTER PLAN 01/78

10. Participating_dot/government_organizations_ard_agreenert_hupeers:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

ORGANIZATION NAME:

DELIVER FSAS HODEL 1 TO A FIELD SITE BY 5/82 SITE FY 8/83

DELIVER FSAS HODEL 2 TO A FIELD

12. KLESTORES:

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	CHECKLEY DESTRUCTION CONTRACT ANARD DESIGN VERIFICATION CONTRACT	PRODUCTION CONTRACT AWARD	COEL 1 FIRST OPE STIT HERBERT (TEC C)	HODEL 2 HARDWARE DELIVERY TECH CTR	CODEL 2 FIRST OPP SITE HARDWARE DELIVEPY
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3. KEVISION NUMBER:

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1. PROJECT NUMBER: 132-403-010	
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FEUJECT	
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5. MANAGER: CMDF.B.B.B.BLUM 4. IIILE: DRVELOPMENT, TEST & SPECIFICATION OF FOS DIRECT USER ACCESS CAPABIL

7. TELEPHONE_NUMBER: 202-426-9357 6. CRGANIZATION: ARD-420

9. REQUIREMENT: OST/FAA TUDY, 12/74; FSS MASTER PLAN, 1/78

10. PARTICIPATING DOI/GOVERNMENT ORGANIZATIONS AND LCREEMENT NUMBERS:

AGREEMENT NUMEEF: PPA 031 TOS 80-V ORGANIZATION NAME:

11. SPECIFIC OBJECTIVES:

KITRE

O.F. (1) DEVEL NEW DIRECT USER ACCESS (DUA) CONCEPTS FOR TEST, EVAL.¢. SPEC: (2) DEVEL & INTEGRATE DUA FEATURES IN WD 2 & MD 3 SYSTS: (3) DEVELOP AND INTEGRATE DUA FEATURES IN WODEL 2: (4) SUPPORT DUA PROJUCTION AND IMPLEMENTATION ACTIVITY. DUA DEVELOPMENT SUPFORTS THE LONG-TERM FSS PROGRAM GOALS ADDING EXPANDED CAPABILITY TO THE FSS AUTOMATION SYSTEM SO THAT CAPACITY CAN BE INCREASED.

MILESTONES 12.

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AGENTATION ROTHER SOUR STREET	COLUMNUS WAS EVALUATION COPPLETED FLIGHT PLN FILLING/PSF PUBLIC DEMO. REGIN	AUTOMAIED FLIGHT PLAN FILING EVALUATION START	ENHANCEMENT DEVELP CONT. STM OF WK & RFF	ENHANCEMENT DEVELOPMENT CONT AND (NDL 3)	PRODUCTION CONTRACT MODEL 3	INPLEMENTATION-ENHANCEMENT PACKAGE #1
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1. PROJECT_NUMBER: 142-120-510

3. REVISION_NUBBER:

4. IIILE: COMPUTEP SCPINARE DEVELOPMENT SUPPORT (AFD-140)

2. START_DATE: 10/77

7. TELEPHONE_NUMBER: 202-426-9336

5. HANAGER: JOHN HORROCKS

6. ORGANIZATION: ARD-123

9. BECULREME: PROGRAM PLAN FAR-ED-14-2A

10. PABILICIPATING DOT / GOVERNY ENT ORGANIZATIONS AND AGREEMENT NUMBERS: ORGANIZATION NAME: A3D-140

AGREEMENT NUMBER: TPD FD-140

11. SPECIFIC GAJECTIVES:

AND-140 WILL PREFARE SPECIAL PACKAGES, PERFORM DOCUMENTATION REVIEW AND CONDUCT VERIFICATION TESTS OF SOFTWARE IN SUPPORT OF THE TERMINAL PROGRAM.

12. MILESTONES:

TYPE	
INDICATOR	DESCRIPTION
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æ.	TAMPA SARASOTA SFTUR SUPPORT COMPLETE
×	ATARS DESIGN VERIFICATION
n:	CONFLICT ALERT DESIGN VERIFICATION (EI)

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1. PROJECT BURBER: 142-121-010

7/75 2. START DATE:

3. REVISION NUMBER:

4. IIILE: PROGRAH PLANNING AND SYSTEN ENGINEERING (MITRE)

5. MAMAGER: WILLIAM FRASER

6. ORGANIZATION: ARD-123

7. TELEPHONE HUBBER: 202-426-1336

9. BEGULBEKELT: TECHNICAL PROGRAM PLAN FAA-ED-14-2A

10. PARTICIPATING DOT/GOVERNHENT ORGANIZATIONS AND AGREEMENT NUMBERS: ORGANIZATION MANE: NITRE

11. SPECIFIC CBJECTIVES:

ACREEMENT NUMBER: FY-80 TOS

SBDS, WITH CONTRACTOR (MITRE) WILL PREPARE RFOULRED AWALYSES, DESIGN STUDIES, TEST PLAKS, SEGING REGULRERENTS AND SYSTEM TEST REFORTS.

12. MILESTONES:

DESCRIPTION SFIUR REQUIRENEYES FOR DARS RRY/ATC INTEBFACE SPECIFICATION TYPE IR<u>DICATO</u>R *

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1. PROJECT_MUMBER: 142-171-050

2. START FATE: 10/77

MANAGER: RICHARD SINON 5

4. ILLE: FULL DIGITAL ARTS DISPLAY (FDAD) DEVELOPHENT 6. QRGALIZATION: ARD-122

REVISION NUMBER:

3.

7. TELEPHONS_NUMBER: 202-426-9342

10. PARTICIPATING DOT /GOVERNMENT ORGANIZATIONS AND AGREEMENT NUEBERS:

9. SECULREGENT: TECHNICAL PROGRAM PLAN, FAA-ED-14-2A

ORGANIZATION NAME: FAATC

AGREEMENT NUMBER: TPD21-211

11. SPECIFIC_OBJECTIVES:

TO DEVELOP A DISPLAY WHICH IS REPRESENTATIVE OF THE STATE-OF-THE-ART IN PEFFORMANCE, FLEXIBILITY, WEIGHT, POWER CONSUNPTION, HAINTAINABILITY AND RELIABILITY. THE RED MODELS WILL BE EVALUATED TO VALIDATE RECTIREMENTS TO BE INCLUDED IN A TECHNICAL DATA PACKAGE TO ENABLE SPECIFICATION OF A REPLACEMENT FOR THE ARTS III DISPLAYS, WHICH ARE APPROACHING DBSOLESCENCE.

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7. TELEPHONE MUNBER: 202-426-9336 6. ORGARIZATION: ARD-123

4. IIILE: TERMINAL SEQUENCING AND SPACING

5. MAMAGER: GARY ROWLAND

9. REQUIREMENT: TECHNICAL PROGRAM PLAN FAA-ED-14-2A

10. PARTICIPATING DOT/GOVERNMENT ORGANIZATIONS AND AGREENENT NURBERS: FAA TECHNICAL CENTER ORGANIZATION NAME: KITRE

AGPEENENT MUMBER: TPD 14-211 FY61 TOS

SPECIFIC OBJECTIVES: 11.

TO DEVELOP A PRELIMINARY DESIGN FOR A TERMINAL SEQUENCING AND SPACING (TSS) AUTOMATION AID, THIS CAPABILITY WILL BE DEVELOPED UNDER CONTRACT TO THE SPERRY UNIVAC CORPOBATION. IN ORDER TO SUPPORT THE DESIGN DEVELOPMENT, A DETAILED DATA COLLECTION AND ANALYSIS ACTIVITY WILL BE UNDERTAKEN AT THREE ARTS III SITES WITH A SIMULTANEOUS ANALYSIS OF ALTERNATIVES AND REDURBEBENTS FOR INTEGRATING THE ISS FUNCTION INTO THE ARTS IIIA SYSTEM. OUT OF THIS PCTIVITY WILL COME THE COMPUTER PROGRAM FUNCTIONAL SPECIFICATIONS (CPFS'S) WHICH WILL BE THE BASIS FOR THE PRELIMINARY DESIGN.

12. HILESTONES:

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DESCRIPLION CONTRACT AVAIDED TO UNIVAC CONTRACT AVAIDED TO UNIVAC ISS/ARTS IIIA MPE INTEGRATION ANAL RPT COMPLETE FINAL SITE ANALYSIS REPORT COMPLETE WITRE FINAL FUNCTIONAL REQUIREMENTS DOCU COMPLETE TSS/ARTS IIIA MPE INTEGRATION REPORT COMPLETE FINAL CUNCTIONAL SIMULATION REPORT COMPLETE FINAL CPFS'S COMPLETE	FINAL PRELIBINARY DESIGN SPEC COMPLETE (EI)	
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1. PROJECT_NUBBER: 142-174-010

6/75 2. START DATE:

0 3. REVISION NUMBER:

4. ILLL: DABS/COMFLICT ALERI/ATARS INTERFACE

5. MANAGER: JOHN HORROCKS

6. ORGANIZATION: ARD-123

FAA-ED-14-2A 9. BEDDIBERENT: 10. PARTICIPATING DOT /GOVERNMENT CRGANIZATIONS AND AGREEMENT NUMBERS:

7. TELEPHONE_NUMBER: 202-426-9336

ORGANIZATION NAME: FAAIC

ACREEMENT NUMBER: TPD 03-110

11. SPECIFIC OBJECTIVES:

TO DEVELOP, TEST, AND EVALUATE THE INTERFACE AND INTERACTIONS BETWEEN DABS/ATAS AND AN ARTS IIIA WITH CONFLICT ALERT, THIS INCLUDES THE DEVELOPMENT OF CONFLICT ALERT AND ATARS COMMUNICATIONS SOFTWARE FOR THE ARTS IIIA ALL DIGITAL SYSTEM (ADS), THIS WILL RE ACCOMPLISHED BY ADDING SOFTWARE MODULES TO THE ADS SOFTWARE DEVELOPED UNDER 142-176-010.

12. BILESTONES:

DESCRIPTION ADS/ATARS SOFTWARE COMPLETE COMPLETE OPERATIONAL TGE ADS CA/ATARS TGE EPT (EI) INDICATOR HC TYPE S

CURR DATE 12/80 12/81 12/81

1/06/81 REFORT DATE: v Ü **,** 0 TECHE PROGRAM DOCUMENT 0 Z A TECHNICAL H U H K H v **(4**? α:

1. ERGJECT_NUEBER: 142-175-020

6/74 STARI DATE: MANAGER: J. HORROCKS

REVISION NUMBER:

4. IIILE: ARTS II ENHANCERENTS

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6. OPGAMIZATION: AFD-173

9. BECUIREMENT: FAA-ED-14-2A; AAT-1 LTR, SUBJ; ARTS II ENHAN, 11/6/78

10. PABILICI PATING DOT ZOVERNIENT ONGANIZATIONS AND AGRECTENT NURBERS:

ORGANIZATION NAKE: FAAIC

AGREEMENT NUMBER: TPD 21-211

8 9/12/80

7. IELEPHOME_MUMBER: 202-426-9336

SPECIFIC OBJECTIVES:

10 TO DEVELOP HARDWARE AND SOFTWARE FNHANCEMENTS FOR ARTS II SYSTEMS, TO INCREASE CAFABILITY, FLEALFILITY, RELIABILITY AND MAINTAINABILITY, P DESIGN ALTERNATIVE STUDY WILL BE COMPLETED FIRST DETERMINE THE REST APPROACH. TO SUPPORT AN FY-83 IMPLEMENTATION PROGRAM, HANDOFFS WILL BE IN THE FORK OF A HARDWARE DESIGN DATA (INCLUDING SPERTIONAL PROGRAM CODERATIONAL PROGRAM

ALLESTONES: 12.

CUPR	DATE	08/11	12/60	3/82	3/63	4874
		CHARL	T-YC	WARD FOR PHASE II	DELIVERY TO FAATC	OPERATIONAL SOFTWAPE DELIVERED TO ATF (EI)
	DESCRIPTION	CONTRACT	FINAL PIFO	CONTRACT A	ECUI PRENT	OPERATIONA
TYPE	INDICATOR	>.	S	O AC	U	S S

REPORT DATE: ٯ 0 CHRO TECHNICAL PROGRAM DOCUMENT ш H FAFCF v. (<u>4</u>) œ ****

1. PROJECT_NUBER: 142-176-040

6/75 2. START DATE:

1/06/81

4. IIILE: DATA LINK INTERFACE

3. REVISION NUBBER:

6. ORGANIZATION: ARD-123

5. MANAGER: JOHN HORROCKS

9. BEQUIREBERT: TECHNICAL PROGRAM PLKAN FAA-ED-14-2A

10. PAKTICIPATIMG_DOT/GOYEERKENT_ORGANIZATIONS_AND_AGREEKENT_NUMBERS:

7. TELEPHONE NUMBER: 202-426-9336

CRGANIZATION NAME: FAATC

AGREEMENT NUMBER: TPD 03-110

11. SPECIFIC_OBJECTIVES:

TO DEVELOP, TEST AND EVALUATE AN INTERFACE BETWEEN AN ARTS IIIA AND DABS WITH FULL DATA LINK CAPABILITY. FUNCTIONS TO BE CONSIDERED FOR DATA LINKS INCLUDE HSAW, CONFLICT ALERT, ECS. WEATHER, ETC. THE APPROACH IS TO ADD SOFTWARE MODULFS TO THE ARTS IIIA DIGITAL SYSTEM (ADS) SOFTWARE DEVELOPED UNDER 142-176-010.

12. MILESTONES:

DESCRIPTION START TEF COMPLETE TEE ADS/DATA LINK TEE REPORT (E/I) INDICATOR

CURR DATE 3/82 6/82 10/82

REPORT DATE: 0 H 0 ECR TECHNICAL PROGRAM DOCUMENT €ű **72.** ~ E U ~ (L) S East

1/06/81

1. PROJECT_MUNBER: 143-152-010

6/17 STAPT DATE: HAMAGER: L. DOUGLASS

OF VOICE TAKEOFF CLEAPANCE (VICCN) 4. IIIIE: VISUAL CONFIRMATION 6. QEGANIZATION: ARD-111

REVISION NUMBER:

TELEPHONE NUMBER: 202-426-0960

9. REQUIREMENT: 9550- ATF-77-2

10. FASTICIPATING DUT/GOVERNMENT ORGANIZATIONS AND AGREFMENT NUMBRERS:

OFGANIZATION NAME: FAATC TSC

AGREEMENT NUMBER: TPD 07-213 PPA FA-021

SPECIFIC ON BECILVES: =

TO DETERMINE IF A VISUAL CONFIRMATION OF A VOICE TAXEOFF CLEAPANCE IS FEASIELE & IF IT PROVIDES AN ADDED MEASURE OF SAFETY. IT WILL BE ACCOMPLISHED IN 2 PHASES BY IN-HOUSE, FRATC, ISC & ANE SUPPORT, PHASE I WILL BE AN INSTALLA, TEST & FVAL, AT 3 TAXEOFF LOCATIONS AT FAATC. PHASE 2'WILL BE AN LASTALATION & FVAL, OF A COMPL, SYS, AT THE BRADILY INTER'L AIRPOPT, & WILL EMPHASIS THE CONTROLLER & P

SENOISETIES 12.

DESCRIPTION TDP (END TIEM) FINAL RPT (9550 SATISFIFD, PRELIM TDP) (EI) INDICATOR v, () %:

CURR EATE 3/81

	REPORT DATE: 1/06/81			
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1. EROJECT_NUMBEE: 145-130-010

2. STAEL DAIE: 10/79

3. REVISION NUMBER: 1

4. IIILE: COMPUTER SOFTWARE DEVELOPMENT SUPPORT (ARD-146)

5. MANAGER: WILLIAM LIVINGSTON

6. QKGANIZATION: ABD-131

7. TELEPHONE_NUMBEE: 202-426-9324

9. REQUIREMENT: SPG LTR OF 9/21/79

10. PAPTICIPATING DOI/COVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: ARD-140 ARD-140

AGREEMENT NUMBER: TPD RD-140 MGMT PLAN

11. SARCIFIC OBJECTIVES:

IDENTIFY, COLLECT, ORGANIZE AND CATALOGUE ATC AUTOMATION SYSTEM DOCUMENTATION, ANALYSE DOCUMENTATION AND PRODUCE SYSTEM-LEVEL REQUIREMENTS SPECIFICATIONS FOR MAJOR FUNCTIONAL AREAS AND SYSTEM-LEVEL DATA DESCRIPTIONS FOR EXTERNAL AND INTERNAL INTERFACES, ENSURE THAT APPLICABLE TFRMINAL ATC REQUIREMENTS ARE INCLUDED IN SYSTEM-LEVEL SPECIFICATIONS, FERFORM STATISTICAL ANALYSES OF AUTOMATION SYSTEM UTILIZATION RASED ON FIELD MEASUREMENT LATA.

TYPE		CURE
IMDICATOR	DESCRIPTION	DATE
*	COMP 9020 UTILIZATION DATA COLLECTION FOR A3D2.9	9/80
5 .	COMP FINAL AUTOMATION SYSTEM DESCRIPTION	10/80
HC S	COMP FINAL 9020 UTILIZATION REPORT (EI)	6/81
3 .2	COMP FINAL PUNCTIONAL APEA SPECIFICATION	9/81
> :	COMP FINAL DATA DESCRIPTION	9/81

REPORT DATE: ပ 0 ы 0 z TECHNICAL PROGRAM FOCUMENT ı O (±) N ::: :::: :::: :::: ζŋ ш α.

1. <u>EROJECT_NUBBER:</u> 145-131-01C

10/79 2. START_DATE:

0 REVISION NUMBER:

1/06/81

IIIIE: PROGRAM PLANNING AND SYSTEM ENGINEEPING (MITRE)

TAANAGEK: E. F. CORINI

9. AEQUIREMENT: SRG LTR OF 9/21/79

6. ORGANIZATION: AED-132

7. TELEPHONE NUMBEE: 202-426-9324

10. PARTICIPATING DOT/GOVERNMENT CRGANIZATIONS AND AGREEMENT NUMBERS: DRGANIZATION NAME:

ASREEMENT NUMBER: FY-8C TOS

SPECIFIC OBJECTIVES: :

ANALYSE THE IMPACT OF FLANNED AUTORATION ENHANCEHENTS ON THE CUPRENT ATC SYSTEM, DEFINE INTERFACES OF TERRINAL AND ENROUTE AUTORATION SYSTEMS, PROVIDE INPUTS TO COMPLETE REPLACEMENT REQUIREMENTS SPECIFICATION AND EVALUATION PLAN. MITHE

12. MILESTONES:

DESCRIPTION ANALYSIS COMPLETE STRESS CONDITION ANALYSIS COMPLETE 9020 OFFLOADING CONCEPT ANALYSIS COMPLETE SPECIFICATION REVIEW COMPLETE (EI) INDICATOR

CUER DATE 10/80 10/80

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TECHNICAL FROGRAM DOCUMENT

REPORT DATE: 1/06/81

1. <u>PROJECT_NUMBER:</u> 145-132-017

2. START_DATE: 10/79

7. TELFEHONE NUMBER: 202-426-9324

4. IIILE: COMPUTER REPLACEMENT SPECIFICATIONS

9. BECULMERENT: SRC ITS OF 9/21/78

6. <u>ORGANIZATION: ARD-131</u>

5. KANAGER: T. L. HANNAN

3. REVISION NUMBER:

10. FARTICEPATING DOI / GOVE ENMENT CHGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

1. PREPARATION OF TERMINAL AUTOMATION REQUIREMENT SPECIFICATIONS AND DESIGN CONCEPT EVALUATION PROCEDURES. 2. DOCUMENTATION OF TEPWINAL AND EN FOUTE HARDWAPE, SOFTWARE, AND COMMUNICATION MODULE COMMONALITY.

12. MILESIONES:

DESCRIPTION RED CONCPT PHASE FUNCT SPEC READY FOR FINAL COCRD TYPE

CURR DATE 6/81

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1. PROJECT_NUMBER: 151-410-01H

1/78 2. SIRRI DAIE:

3. REVISION NUMBER:

4. IIIIE: SYSTEMS ENGINEERING SUPPORT

6. ORGANIZATION: ARD-410

5. KANAGER: FRIC MANDEL

9. REQUIREMENT: AMES-EDPP(2.2.1)

7. TELEPHONE NUMBEE: 202-426-8427

10. PARTICIPATING DOILGGOVERNAENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: FAA TECH CT-TPD TSC-PPA

AGPEEMENT NUMBER: FA-067-1A 15-769

11. SPECIFIC ORJECTIVES:

TO INSURE THAT THE AWES ACTIVITIES ARE INTEGRATED INTO A COMPPEHENSIVE SYST. WHICH SUPPORTS ALL APPLICABLE ELEMENTS OF THE NAS. SPECIFICALLY THIS INVOLVES DEVELOPING A CLEAR DEFINITION OF THE AV. WA PPOLLEM, PERFORMING VARIOUS BENEFIT ANALYSES, DEVELOPING & DETAILED FUNCTIONAL DESCRIPTION AND REQUIREMENTS DOCUMENT FOR THE INPUTS, PROCESSING, CUTFUTS DISPLAY, ETC PEFTAINENT TO THE SYSTEM DESIGN.

TYPE		CURR
INDICATOR	<u>DESCRIPTION</u>	DATE
x:	AWES FUNCTIONAL DESCRIPTION	10/80
>:	SYSTEM ENGINEERING CONTRACT SELECTION	1/80
7.C	ETABS OFERATIONAL INTEPPACE REDS	11/80
¥:	SUMBARY ANES FURCTIONAL DESCRIPTION	3/81
SEC TR	SYSTEM DETAILED SPECIFICATIONS	12/81

	REPORT DATE: 1/06/81			
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1. PROJECT MUMBER: 151-412-014

2. STAKI DATE: 6/79

7. TELEPHONE NUMBER: 202-426-8427

3. REVISION NUEBER:

4. IIIIE: DEVELOP DATA LINK WEATHER PRODUCTS

9. BEDUIREMENT: ANES EDPP (2.2.7); ARD-1 PEQUEST,

6. OBGANIZATION: ARD-410

5. MARAGER: JOE GAMBLE

10. PARTICIPATING DOT ZGOVERNBENT ONGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER: 15-289

ORGANIZATION NAME: FAA TECH CT - TPD (PENDING)

OBTAIN REAL-TIME UFFER AIB WIND INFORMATION IN THE TERMINAL AREA PY PROCESSING DABS DERIVED TRACK/GROUND SPEED (FROM GROUND SPEED (FROM GROUND SENSOR), 11. SPECIFIC_OBJECTIVES:

12. MILESTONES:

CUPR DATE 1/81 6/82 2/83 5/83 DESCRIPTION
DEMONSTRATE DATA LINK WX PRODUCTS SIMULATION
FIAST FULL SCALE D/L WX PROD TST USING DABS INPUTS
1ST FULL SCALE WX PROD TST IN H/F OF WINDS TO MES
FINAL HEPORT/TECH DATA PKG.ON DATA LINK WX FRODS TYFE

	REPORT DATE: 1/04/84	19/00/1 . 11:00 . 10:11:			
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PROJECT_NUMBER: 151-412-029

2. STARI_DAIE: 5/80

3. REVISION NUMBER:

4. IIILE: COCKPIT WEATHER DISPLAY 6. QRGAMIZATION: ARD-410

7. IELEPHONE NUMBER: 202-426-8427

9. REQUIREMENT: ANES EDPP (2.2.7)

5. MANAGER: JOE GAMBLE

10. PARTICIPATING DOT / GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

CRGANIZATION NAKE: FAA TECH CT~TPD (PENDING)

AGREEFENT NUMBER: 15-289

11. SPECIFIC OBJECTIVES:

PROVIDE A LOW COST ALTERNATIVE FOR THE DISPLAY OF HAZARDOUS WEATHER IN GENERAL AVIATION AIRCRAFT Which are not radar equipped.

CCKPIT WX FISFLAY . AIR EQUIP C/PIT WX DISPLAY OR C/PIT WX DISPL FESULTS FOR C/PIT WX DISPLAY
CCKPIT WX PISFLAY . AIR EQUIP C/PIT WX PR C/PIT WX DISPL RESULTS FOR C/PIT WX
CCKPIT WX PISFLAY A MIR EQUIP C/PIT OF C/PIT WX DISPL RESULTS FOR C/PIT
COCKPIT WX F. AIR EQUIP OR C/PIT WX
DESCRIPTION TDP (GD ENVIRD) FOR COCKPIT WX PISFLAY INSTALL COMPL OF GD & AIR EQUIP C/PIT WX I FLIGHT TESTS COMPL FOR C/PIT WX DISPL PUBLISH RPT OF TEST RESULTS FOR C/PIT WX I
TAYER TO

	REPORT DATE: 1/06/81			人名英格兰 医非非常性性神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神
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1. PROJECT_NUMBER: 151-413-01W

PEVISION NUMBER: ٠ ٣ 6/16 2. START DATE:

4. IIILE: CENTER WEATHER SERVICE UNIT (CWSU) DEVELOFMENT

5. MANAGER: JOE GAMBLE

6. GRGANIZATION: ARP-410

9. REQUIREMENT: AHES-EDPP (2.2.2) (PFWDING)

10. PARTICIPATING DOT/SOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

7. TELEPHONE MUNEER: 202-426-8427

PRANIZALION NAME: FAM TECH CT - TPD

AGREERENT NUMBER: 15-289

11. SPECIFIC CAJECITYES

IN SUPPORT OF THE EGD PROG PLAK, PPCVIDE AN AV WX SYS SYFERINENTAL CAPABILITY AT FAA TECH CT BY ESTABLISHING AN "E" COMPLEX AS PART OF THE ENROUTE 3SF, INTERFACED WITH THE TATE AND EXPERIMENTAL FSS, AND MODIFY THE SSF ACCOPDINGLY. DESIGN & CONDUCT VARIOUS EXPER. & TSTS IN SUPT OF THE AV WX DEV REPORT TO RESOLVE THOSE ISSUES DEFINED IN THE AVIATION WEATHER SYSTEM PROGRAM PLAN.

TYPE INDICATOR DESCRIPTION MCP N ESTABLISH INITIAL CWSU WORN STATION CAP (REPORT) MCP N COMPLETE STAGE 1 FUNCTIONAL SPEC.FOR CUSU DEV MCP N COMPLETE STAGE 2 FUNCT. SPEC.FOR CWSU DEV MCP N COMPLETE STAGE 2 FUNCTIONAL SPEC.FOR CWSU DEV MCP N COMPLETE STAGE 3 FUNCTIONAL SPEC.FOR CWSU DEV	CURR	TYT	8/81	16/81	10/62	118/11	10/85
M M M M M M M M M M M M M M M M M M M		DESCRIPTION	ESTABLISH INITIAL CWSU HORK STATION CAP (REPORT)	COMPLETE STAGE 1 FUNCTIONAL SPEC.FOR CUSU DEV	COMPLETE STAGE 2 FUNCT. SPEC. FOR CHSU DEV	COMPLETE STAGE 3 FUNCTIONAL SPEC. FOR CHSU DEV	COMPL CHSU FLD TEE (AFTER DELIV. 1ST.PRODN.STG 3)
では、日本では、日本では、日本では、日本では、日本では、日本では、日本では、日本	Й	ATOB	26.	*	2	×	×
	TYF	INDIC	d D	FCP	MCP	a C D	ρ.; ≽.;

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1. PROJECT_MUMBER: 151-413-03%

7. TELEPHONE_NUBBER: 202-426-8427

4. IIIIE: TERMINAL MEATHER CONTROLLER SUPPORT

5. MANAGER: GLENN GLASSBURN

6. ORGANIZATION: APD-410

3. REVISION NUMBER:

5/80

2. STAPI_DATE:

9. KECUINEMENT: AVES-EDPF(2.2.5)

ORGANIZATION NAME:

10. PARTICIEATING DOT/GOYSRAMENT OFGANIZATIONS AND AGREETENT MUMBERS:

11. SPECIFIC OBJECTIVES:

ACREEMENT NUMBER:

DISPLAY A/N WEATHER DATA ON TIDS AND CCD. DISPLAY WEATHER RADAR DATA ON THE ARTS DISPLAY AND DISPLAY OTHER GRAPHICS GENERATED BY THE CWSU ON THE ARTS OR A/N ALTERNATIVE DISPLAY.

12. MILESTONES:

DESCRIPTION LETTER REPORT INPUT TO APD-100 TDF INDICATOR

CURR DATE 1/83

	REPORT DATE: 1/06/81			
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1. EBOJECT NUMBER: 151-413-048

5/80 2. STARI DATE: 7. TELEPHONE NUMBER: 202-426-8427

3. REVISION_NUBBER:

4. IIILE: CENTER CONTROLLER SUPPORT

6. ORGANIZATION: ARD-410

5. MANAGER: GLEN GLASSBURN

9. <u>REQUIRENENT</u>: ANES-EDPP (2.2.4)

10. PARTICIEATING DOT/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER:

11. SPECIFIC_OBJECTIVES:

ORGANIZATION NAME:

DEVELOP,TEST AND EVALUATE METHODS FOR EFFECTIVELY DISPLAYING WEATHER INFORMATION ON CENTER CONTROLLER DISPLAY EQUIPMENT (IE., ETABS, PVD AND EWEDS).

CUPR	DATE	2/82	8/82	10/82	19/6
	DESCRIPTION	PRELIM WX FUNCT REQUIREMENTS FOR CT CONTROLLER SPT	TEE ETABS PRODUCTS CONTENT (CT CONTROLLER SFT)	LFTTER REPORT TO APD-100 AS INPUT TO ETABS TDP	REPORT TO ARD-100 AS INPUT TO EMEDS TDP
TYPE	TOT VOIGNI	¥:	KC N	¥	¥ 4.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0
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REPORT DATE: 1/06/81 **** ی 0 TECHNOL TECHNICAL PROGRAM DOCUMENT AN FISEAFCH

1. 2801ECT_NUMBER: 151-413-064

2. STAET_DATE: 6/79

3. REVISION NUMBER: 2

4. IIILE: SOLID STATE ATIS

7. TELEPHONE NUMBER: 202-426-8427

6. <u>Organization</u>: Ard-410

5. HANAGER: RAYNOND COLAO

9. BECUIRETERT: AMES-EDPP (2.2.5); 9550-1, AAF-430-79-007 -- 10. PARITCIPATING DOT /GOYERRENT_ORGANIZATIONS_AND_AGREEFERT_NUMBERS:

ORGANIZATION NAME: TSC

AGREEMENT NUMBER: PPAAO83

11. SPECIFIC OBJECTIVES:

DEVELOP A TOP FOR A SOLID-STATE REPLACEMENT FOR ATIS.

12. MILESTONES:

INDICATOR DESCRIPTION

INDICATOR DESCRIPTION

E SYSTEM DESIGN COMPLETE FOR SCLID STATE ATIS

MC FIELD TEST COMPLETE FOR SOLID STATE ATIS

MC TDP HAND OFF FOR SOLID STATE ATIS

CURR <u>DATE</u> 8/79 2/82 3/82

8

REPORT DATE: TECHNOIO TECHNICAL PROGRAM DOCUMENT SEARCH

1. EKOJECI_MUNBER: 152-410-024

4/79 2. STAPI_DAIE: 7. TELEPHONE NUMBEE: FTS-320-6819

1/06/81

4. IIILE: TERRINAL AREA WEATHER SUPPORT (PROFS)

3. REVISION NUMBER:

6. ORGANIZATION: ARD-410

5. MANAGER: HINKELMAN/GLASSBURN

9. BEGUIRERENT: AMES EDPP (2.2.9); NISE LTR OF 7-27-77 AND 10-28-77

10. PARTICIPATING DOT ZGOVERMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: NOAA/ERL IAA

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

PARTICIPATE IN DENVER TERMINAL AREA IN JOINT NCAA/FAA TERMINAL AREA WEATHER SUPPORT SUBSYSTEM (PPOFS) ENGINEERING AND IEST AND EVALULATION FROGRAM. PROFS OUTPUT TO BE USED AS CRITICAL INPUT TO AWES IERMINAL AFEA SUBSYSTEM.

12. MILESTONES:

DESCRIPTION DESCRIPTION (PROFS) INITIAL SYSTEM FUNCTIONAL DESCRIPTION (PROFS) INDICATOR H

CUPR PAIE 1/61

REPORT DATE: 1/06/81 K C 0 TECHNOL TECHNICAL PROGRAM DOCUMENT O M Y RESERBOR

1. PROJECT HUNBER: 152-410-03W

5/80 2. START DATE: 7. TELEPHONE MUNBER: 202-426-8427

3. REVISION NURBER:

4. IIILE: FREQUENCY OF CAT III VISIBILITY CONDITIONS

5. MANAGER: ART HILSENROD

6. ORGANIZATION: ARD-410

9. REQUIREMENT: AMES-EDPP (2.2.9); HELI OPS DEW PLAM; RD-1 LTR TO ATA

10. PARTICIPATING DOT/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: COUNTY OF HUMBOLDT CA DOT SALECTED REGIONS AND AIRPORTS

AGREEMENT NUMBER: FA78NA451

11. SPECIFIC OBJECTIVES:

DEVELOP CLIMATOLOGIES OF RVR VALUES AT SEVERAL AIRPORTS FOR USE IN THE IMPLEMENTATION OF CAT II AND CAT II LANDING SYSTEMS AND FOR VERY SHORT RANGE (0-30 MIN.)FORECASTS DEVELOPMENT.

2. MILESTONES:

DESCRIPTION LTR RPT TO AAF AND AFO ON CAT III B RVF INDICATOR MC X TYPE

CURR DATE 10/80

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1/06/81

REFORT DATE: 3. REVISION NUMBER: TECHNICAL PROGRAM DCCUMENT 1/78 START DATE: 1. PROJECT_NUMBER: 153-410-019

6. QRGANIZATION: APD-410

4. IIILE: AHOS AND WX SENSORS

9. BELUIREMENT: AMES EDPP (4.2.1); FSS PROGRAM; 9550-1, AFS-700-78-1

5. MANAGER: JOHN DORMAN

7. TELEPHONE NUMBER: 202-426-8427

10. PARTICIPATING DIZGOVERNNENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ACREEMENT NUMBER: FA73WAI394 FA78WA1872 FA78WAI407

11. SPECIFIC OBJECTIVES

HUMBOLT CT. CALIF. DRCANIZATION NAME: NES / NWS NES

DEMONSTRATE THE FEASIBILITY ENGINEER AND DEVELOP ACCEPTABLE AUTOMATED WEATHER CBSERVATION SYSTEMS. OF ALMOS IHROUGH A DEMONSTRATION AND TEST PERIOD AT DULLES AIRPORT.

12. MILESTONES:

CURR DATE 4/80 1/81 4/81 DESCRIPTION WAYE TO AAF WAYE TOP FORMARED TO AAF PRELIMINAR! ALWOS TOP COMPLETE ENHANCED ALWOS TOP COMPLETE AWOS TOP COMPLETE TYPE INDICATOR

1/06/81 REPORT DATE: بر ق 0 ы 0 TECHN TECHNICAL PROGRAM DOCUMENT (.) 22. E S F A F C H

1. 28035CT_NUMBER: 153-411-01H

STAFT DATE: 10/79

3. REVISION NUMBER:

4. IIILE: HELICOPIER WX DETECTION SYSTEMS

5. MANAGER: ARTHUR HILSENROD

6. OMGANIZATION: ARD-410

7. IELEPHONE NUMBER: 202-426-8427

9. BEQUIREMENT: AMES-EDPP (4.2.3) HELICOPTER PROGRAM PLAN. LT RPT ASH-1 TO ARD-1

10. PARTICIPATING DOT/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS: ORGANIZATION NAME:
OFFICE OF NAVAL BESEARCH DOT
EUREAU OF LAND MANAGEMENT
ASO

AGREEMENT NUMBER: FA77WAI818

11. SPECIFIC OBJECTIVES:

TO PROVIDE WEATHER OBSERVATION AND DETECTION SYSTEM TO SUPPORT THE INCREASE OF HELICOPTER OPERALIONS. DEVELOP AND TEST LOW COST WEATHEP OBSERVATION SYSTEM (ALWOS) THAT WILL WITHSTAND SALT ENVIRONMENT. DEVELOP AND TEST THUNDERSTORM (SPHERICS) TRACKING SYSTEM IN GULF OF MEXICO.

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CURR	DATE	08/9				WX DET SYST		•		
	DESCRIPTION	INSTALL TETM DETECT SYS IN APO	INSTALL TSTH DET. SYS ON GULF CCAS	START GULF TSTM DET SYS TEE	DEPLOY ALWOS ON OFFSHORE PLAT	COMPLETE INITIAL AEC TESTS FOR HEI	COMPLETE INITIAL GULF ALHOS TESTS.	COMPLETE GULF ISTM DET SYS TESTS FOR HULLCOPTEPS	COMP ISTM DETECT SYS INF FOR HELO. WX DET SYST.	SELED SORIE GON NO SESSEE CAND SACO
TYPE	INDICATOR) 	> :	54 C)	•	٠ ـ	> .*	¥:	¥: >.	1// 5

1/06/81 REPORT DATE: U 0 CER TECHNICAL PROGRAM DOCUMENT ш SEARCH iei

1. PROJECT_NUMBER: 155-410-01W

5/80 START DATE:

2.

4. IIILE: NEXRAD JSPO SUPPORT

REVISION BUNBER: 3.

6. DEGANIZATION: RND-410

5. MANAGER: SOWAR/GLASSBURN

9. MEQUIREMENT: AMES EDPP(3.2.1) DIRECTIVE FROM ONP & FED COORD. OF METEOROLOGY. 7. TELEPHOME NUMBER: 202-427-7150

10. EARTICIPATING DOI/GOVERNMENT CRCANIZATIONS AND AGREFMENT NUMBERS

CRGANIZATION NAME:

AGREEZENT NUMBER

11. SPECIFIC_OBJECTIVES:

SUPPORT TO NEXPAD JSPO OR DOT SHARE OF THE JSPO BUDGET SO THAT ENGINEERING SUPPORT COMPETITIVE DEVELOPMENT CONTRACTS UNDER A-109 PROCESS CAN BE OBTAINED. PROVIDE DIRECT AND FUNDING OF

:SENCISETIN 12.

CURR DATE 10/80 9/61 8/82 1/85 DESCRIPTION JOINT NEXRAD PROGRAM PLAN APPROVED AMARD MULTIPLE SYSTEM DESIGN PHASE CONTPACT, NEXRAD AWARD MULTIPLE VALIDATION PHASE CONTRACT, NEXRAD AWARD FULL SCALE DEVELOPMENT CONTRACTS, NEXRAD TYPE LINDICATOR MC MC MC MC MC MC

	REPORT DATE: 1/06/81			***************
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1. <u>PROJECT_NUMBER:</u> 155-410-02W

1/79 2. STAPT DATE:

3. REVISION NUMBER:

4. IIILE: NEXHAD REQUIREMENTS ANALYSIS ENGINEERING SUPPORT

5. YANAGER: CARROLL WOPKMAN

7. TELEPHONE_NUMBER: 202-426-8427 6. CRGANIZATION: ARD-410

10. PASTICITATING POT /GOYDENBENT CRGANIZATIONS AND AGREEMENT NURBERS: 9. REQUIREMENT: AWES EDPP (3.2.2) NEXRAD PROGRAM

AGREEMENT NUMBER: FAC88

CRGANIZATION NAME: TSC PPA 11. SPECIFIC DBJECTIVES: PERFORM COST/BENEFIT ANALYSIS, SITE ANALYSIS AND IMPLEMENTATION PLANNING FOR THE NEXT GENERATION OF AEATHER RADAM. THIS PROGRAM ALSO MUST PROVIDE OVERALL ENGINEERING SUFPORT TO THE JSPO TO INSURE THAT FAR REQUIREMENTS ARE SATISFILD.

12. MILESTONES:

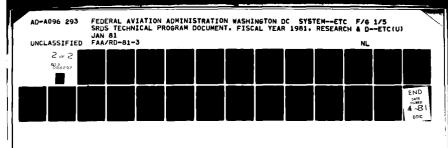
CUER DATE 2/80 7/80 9/82 DESCRIPTION

TSK 1 PROJECT REPORT ON NEXRAD FOP ANALYSIS

TASK #2 INTERIM REPORT ALTERNATIVE RNALYSIS, NEXRAD

COST BENEFIT ANALYSIS, NEXRAD PEQUIPEMENTS INDICATOR TYPE

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1. PROJECT_NUMEER: 155-410-03W

5/80 2. STARI DATE:

3. REVISION NUMBER:

4. IIILE: NEXRAD HADAR TERMINAL AREA COVERAGE STUDIES

5. MANAGER: FRANK COONS

6. ORGANIZATION: ARD-410

9. BEQUIREMENT: ARES EDPP(3.2.3)

7. IELEPHONE_NUMBER: 202-426-8427

10. PARTICIPATING DOT/SOVERNMENT OKSANIZATIONS AND AGREEMENT NURPERS:

OPGANIZATION NAME: NCAA/FAADTFAC1 DEPT OF COMM.,NOAA NSSL

AGFEEMENT NUMBER: 80-Y-10524 DT FA01-80-Y-10524

11. SPECIFIC OBJECTIVES:

12. MILESIONES:

CUPR DATE 12/80 12/61 1/82 DESCRIPTION

DETECT OF HAZ RX IN T/A RY DOP WX FADAR (ANL RPT)

TERMINAL AREA HAZARD DETECTION ANAL REIORT COMPL

RPT ON DOP WX RADAE SITING CRIT TO DET T/A WX HAZ TYPE INDICATOR

DETERMINE THE WEATHER RADAR SITING CRITERIA FOR TERMINAL AREA (30% MI RADIUS) COVERAGE

	REPORT DATE: 1/06/81			
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1. PROJECT NUMBER: 156-230-01W

2. START DATE: 12/79

3. REVISION NUMBER:

4. IIILE: TERBINAL WEATHER RADAP DEVELOPMENT

7. TELEPHONE_NUMBER: 202-426-8576 6. ORGANIZATION: ARD-231

5. MANAGER: ISADORE COLDHAN

9. BEQUINERENT: AMES-EDPP(3.2.6/3.2.5/3.2.3) ADA-1/AED-1/ARD-1/2 DIRECTION 6/25/76

10. PARTICIPATING DOT/COMERNHENT OKGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER: IAA DIFA 0180X10524 IAA DIFA 0180X10524 IPD 02-106 ORGANIZATION NAME: USAF HIL/LINCOLN LAB NOAA NATICNAL SEVEKE STORMS LAB FAA TECH CENTER PROJ. # 156230510/20/30

11. SPECIFIC OBJECTIVES:

EVALUATE FULSE DOPPLER CAPABILITY TO DETECT HAZAPDOUS WEATHER. EVALUATE TECHNICUES TO REDUCE DATA CONTAMINATION PROFIEMS (E.G., GROUND CLUTTER) OF NEXRAD. DETERMINE HOW BEST TO MEET FAA'S MEQUIPEMENTS.

12. KILESTONES:

CUPR	DATE	4/81	6/81	6/82	6/82	9/85	2/86
	DESCRIPTION	RPT-WX DATA ANAL TO ESTABLISH HAZ CORREL	RPT-TERM UX TECH RPOUS & CAND SYS DESC	FPT SCAN RATE STUDY	SIGNAL PROCESSING/HDWP/SFTWR DEVELOPED	T 6 F OF EXPER SYST IN 3 ENVIRONMENTS COMPLETE	TDP ISSUED FOR TEPMINAL WEATHER RADAR
	되어되	78	S .				32
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1. PRCJECT_NUMBER: 156-230-02W

4. IIILE: WERTHER RADAR EXPERIMENTAL FACILITY

3. EEVISION_NUMBER:

5/80

START DATE:

2.

5. MANAGER: ISADORE

7. TELEFHONE NUMBER: 202-426-8576

6. CPGAMIZATION: ARD-231

GOLDMAN

9. BELUIREZENI: AWES-EDPP (3.2.5)

10. PARTICILATING DOI/GOVERNMENT OFGRAIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER: TPD-02-106 IAR DIFA0180 Y10524 IAA DIFF0180 Y10546

ORGANIZATION NAME: FAR TECH CENTER, PROJ. 156230510/20 NOAR VATIONAL SEVERE STOPMS LAE USAF MIT/INCOLN LAB

11. SPECIFIC OBJECTIVES:

DEVELCE A WEATHER RADAR DATA PROCESSING AND DISPLAY SYSTEM (DPDS) FOR EXPERIMENTAL TESTING IN FAA OPERALIONAL ENVIEDNMENTS. TEST AND EVALUATE OVERALL SYSTIM DESIGN, DISPLAY TRODUCTS, AND GEOGRAPHICAL SENSITIVITY OF METECROLOGICAL TECHNIQUES.

12. MILESTONES:

CURR DATE 10/82 6/83 12/85 DESCRIPTION

DATA PROCESSING AND DISPLAY SYSTEM DELIVERED

DPDS INTEGRATED INTO FAA TPANSP. TEST PED FACILITY

FAA EVALUATION REPORT COMPLETE ROLVOIGNI TYPE ρ. >:

1. ENGLECT_NUMBER: 156-231-01F

4. TITLES: MEATHER BADAR SUSTAINING ENGINEEPING

5. MANAGER: ISADORE GOIDHAN

3. REVISION NURBER:

7. TELEPHONE NUMBEE: 202-426-8576 6. QRGANIZATION: ABD-231

10. EASTICIPATING DOTZCONFENKENT DEGANIZATIONS AND AGRECKENT NURBERS:

9. REQUIREMENT: ADA-1/ALD-1/AED-1/2 DIRECTION 6/25/76; AWES-EDDP(3.2.6/3.2.5/3.2.3)

ORGANIZATION NAME: USAF MIT/LINCOLN LAB FAA TECH CTR PROJECT # 156230510/20/30

ASPEEMENT NUMBER: IAA DIFA 0180716546 IED 02-106

11. SPECIFIC OBJECTIVES:

NOTE: THIS PROJECT RESUME COVERS THE FCE FUNDED PORTION OF PROJECT 156-230-014 FCR TEPMINAL WEATHER KADAR DEVELOPMENT.

CUPF	DATE	11/11	6/81	6/82	6/82	6/85	2/86
	DESCRIPTION	RPT-WA DATE ANEL TO ESTRELISH HAZ CORREL	RPT-TERM NX TECH FEQUE 6 CAND SYS DESC	APT SCAL BETE STUDY	SIGNAL PROCESSING/HDWR/SFTWR DEVELOPED	T E B OF EXPERSYST IN 3 ENVIRONMENTS COMPLETE	THE ISSUED FOR TERMINEL MEATHER RADAR
TYPE	INDICATOR	_**	<u>ر</u>		. 20	۵.	SF U.S.

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1. PROJECT_NUMBER: 156-410-01W

2. START DATE: 12/77

7. TELEPHONE NUMBER: 202-426-8427

3. REVISION NUMBER:

4. IIILE: METEOROLOGICAL TECHNIQUES DEVFLOPMENT

6. CPGANIZATION: ABD-410

5. MANAGER: FRANK COOMS

10. PRATICIPATING POTZGOVERNMENT ONGANIZATIONS AND AGREEMENT NUBERRS: 9. REQUIEEMENT: ARES-EDPP(3.2.4) AAT 9550 (DID 10/78)

AGREEMENT NUMBER: FR77WAI806

ORGANIZATION NAME: NOAA/NSSL IAA

CONTINUE SEVERE WEATHER TRACKING AND PREDICTION ALGORITHM DEVFLOPMENT. DEVELOP NEW HAZARDOUS WEATHER SIGNATURE RECOGNITION ALGORITHM. 11. SPECIFIC OBJECTIVES:

CUER	9/79	8/80	V 10/32
# C P + C C C C C	PERCENTARY THUNDERSTORM PENETRATION DATA ANALYSTS	ENHANCED ALGORITHM TEST, METFOROLOGICAL TECH DEV	FINAL SOFTWARE TOP COMPLETE, KETEOFOLOGICAL TEC DEV
TYPE	マステマネティマネ	N.	>

REPORT DATE: 1/06/81 ပ TECHNICAL PROGRAM DOCUMENT N D RFSEARCE

1. EROJECT_NUMBER: 156-410-02%

2. START_DATE: 5/80

7. TELEPHONE_NUMBER: 202-426-6427

3. REVISION NUMBER:

4. IIILE: AIRBORNE DOPPLER WEATHER RADAR EVALUATION

5. MANAGEE: JIN MUNCY

6. OPGANIZATION: ARD-u10

9. REQUIREMENT: ANES PROGRAM

10. PARTICIPATING DOT/GOVERNHENT_CRGANIZATIONS_AND_AGREEMENT_NUMBERS:

ORGANIZATION NAME:

11. SPECIFIC OBJECTIVES:

AGREEMENT NUMBER:

FLIGHT TEST COMMERCIAL MIRBORNE DOPPLER WEATHER PADAR USING GROUND BASED DOFPLER AS A STANDARD.

12. ELLESTONES:

CURR DATE 9/81 12/82 DESCRIPLION FLIGHT LESTING OF CONMERCIAL AIRBORNE FOPPLER COMP FINAL REPORT COMFLETS, AIRBORNE DOPPLER WX RADAR INDICATOR HCF HCF KCP

	REPORT DATE: 1/06/81			**********
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182-530-17W 1. PROJECT_NUMBER:

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0 3. REVISION NUMBER:

4. IIILE: HELICOPTER ICING ENVIRONMENT FOR AIRWORTHINESS STDS & CFFTIFICATION

7. IELEFHONE_NUMBER: 202-426-8427

6. ORSANIZATION: ARD-413-

5. MANAGER: A. HILSENROD

9. BEQUIRENEM: 9550.1, HELI ICING CERT.CFIT. AFS-100-78-160 & ARC REPLY 2-78. 10. PARTICIPATING DOT / SOVE ENDENT DEGANIZATIONS AND AGREEMENT NUMBERS:

501 IAA ORGANIZATION NAME: NAVAL RESEARCH LABORATORY

AGREEMENT NUMBER: FA79WAIC20

11. SPECIFIC OBJECTIVES:

CETAIN DATA ON NATURAL ENVIPONMENT ICING CONDITIONS BELON 8000 FEET FOR ESTABLISHING AIRWORTHINESS STAS FOR USE IN CERTIFYING HELICOPTEPS FOR FIGHT INTO ICING CONDITIONS. DATA WILL EE OBTAINED ON LIQUID WATER CONTENT, DROP SIZE DISTRIBUTION AND TPMPERATURE FOR INCLUSION IN FAR 527 AND 29.

12. MILESTONES:

DESCRIPTION
INTERIW REPOPT PUBLISHED
DRAFT SECOND PEFORT
SECOND REPORT PUBLISHED
DRAFT ICING STAKDARDT TO FO INDICATOR TIFF

CURR DATE 4/80 11/80

		REPORT DATE: 1/06/81			******************
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	RESEARCH AND TECHNOLOGY		TECHNICAL PROGRAM DOCUMENT		人名 医电影性 医电影
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1. PROJECT_KUNBER: 185-261-010

2. STARI DAIE: 7/75

7. IELEPHONE_MUNBER: 202-426-6794

3. REVISION MUBBER:

4. IIIIE: AVIATION SECURITY RESERRCH PROGRAM 6. QRGABIZATION: ARD-213

9. BEQUIRENENT: ENGINEERING AND DEVELOPMENT PLAN - 3-76

5. HANAGER: KENNETH WISE

10. PARTICIPATING DOI/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: US POST SEKV IA104230-79-T1873 VETERAMS ADMINISTRATION

788AI-854

AGREEMENT NUMBER:

11. SPECIFIC_OBJECTIVES:

•								10/82
		DESCRIPTION	Y X-RAY FEASIBILITY REPOR	WESTINGHOUSE X-RAY UNITS DELIVERED TO DULLES	LGORITHM DEVELOP (MITRE)	THERMAL NEUTRON IR CARGO TEST COMPLETE	HODULAR AUTO X-RAY EXPERIMENTAL UNIT DELIVEPED	GERBIL INVESTIGATION COMPLETED
		DESCRIPTION	DUAL ENERGY	WESTINGHOUS	ADVANCED AL	THERMAL NEU	HODULAR AUT	GERBIL INVE
	TYPE	INDICATOR	æ:	ن <u>د</u>	ر ا	E.C.	D.	s et

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2/81

REPORT DATE:

1. PROJECT_NUMBER: 213-460-090

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REVISION NUMBER

4. LILLE: AEKONAUTICAL BAND STUDIFS 6. QREANIZATION: AND-450

MANAGER: CHANLES

7. ISLEPHOME_NUMBER: 202-426-3628

9. RECULASENERT: FAA-FD-21-4, SECTION 2.2.7

10. FARTICIPATING DOI/GOVERNMENT ORGANIZATIONS AND AGREEMENT NUPBERS

ORGANIZATION NAME: ITS

AGREMENT NUMBER: PP #5830

11. SPECIFIC OBJECTIVES:

THE PURPOSE OF THIS TASK IS TO IDENTIFY THE INTEPERBENCE THRESHOLDS FOR AVIONICS OPERATING IN THE AVIATION FREQUENCY BANDS. ICAO HAS ESTABLISHED THE HARMFUL INTERFERENCE TO RADIO STUDY GROUP TO INVESTIGATE CAUSES AND REMEDIES FOR INTERFERENCE TO SQUIPMENT IN ALL OF THE ARRONAUTICAL PREQUENCY BANDS. FAA PROVIDES THE SOLE U.S. MEMBER. WHILE A SUBSTANTIAL AMOUNT OF INFORMATION HAS BEEN PRESENTED ON ADF, ILS, VOR, AND VHF COM, OTHER BANDS HAVE RECEIVED LITTLE ATTENTION. THIS TASK WILL INITIALLY ADDRESS HF COM (2.85 -23.35 MHZ) AND ARSR (1240-1370 MPZ). OTHER BANDS MAY BE ADDRESSED

12. MILESTONES:

DESCRIPTION FINAL SEPORT ISSUED INDICATOR

CURR DATE 10/83

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1/06/81

REPORT DATE:

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10/78 2. STAFT DATE: 213-460-330 1. PROJECT_NUMBER: 4. IIILE: ALASKAN AIR/GROUND FIGH FREGURNCY COMBUNICATIONS PRFDICTION SEPVICE

QRGANIZATION: ARD-451D •

5. MANAGEM: RICK DUPRE.

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3. REVISION NUMBER:

7. IELEPHONE_NUMBER: 202-426-3994

10. PARTICIPATING DOT/GOVERNMENT ORGANIZATIONS AND 2GREEMENT NUMBERS:

ASREEMENT NUMBER:

9. <u>BEQUINENENE: 9550(AAL-400) HENO 2/17/76 ARD-1 FESPONSE 5/18/76 9550 #AL-076-003</u>

EFFOFT ORGANIZATION NAME: FAA/NAVI/AIR FORCE/NGAA COUF

11. SPECIFIC OBJECTIVES:

AIRCRAFT IN NORTHERN LATITUDES BEYOND SYNCHRONOUS SATELLITE AND VHF CCVERAGE ARE DFPENDENT ON HF COMMUSICATIONS. SOLAR DISTURBANCES LISRUFT HF CCMMUNICATIONS. R "REAL TIME" FREDICTION SERVICE OF THE NAVY "PROPHET" TYPE WILL PROVIDE ATC WITH THE MEANS TO REDUCE CUTAGE TIMES, SAVE OPERATOR TRIAL E ERROR TIME, POWER RELATED TO SIMULTANEOUS USE OF MULTIFLE FPEQ. E PROV. ADVNCE WARN OF OMEGA DETERIOR

12. MILESIONES:

DESCRIPTION PREMINAL INSTALLATION OPERATIONAL TESTING COMPLETE INDICATOR P TYPE

CURR DAIE 6/80

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1/06/81 REPORT DATE:

1. EROJECT_NUMBER: 213-462-020

1/60 2. START_DATE: 7. TELEPHONE_NUMBER: 202-426-3628

3. REVISION NUMBER:

4. IIILE: LF/MF ASSIGNMENT HANDBOOK REVISION

9. BEUUIBEMENI: FAA-ED-21-4, SECTION 2.2.1(2) PAGE 8

6. OPSANIZATION: ARD-452

5. MANAGER: ROBERT SHITH

10. PARTICIPATING DOT/GOVERNMENT CPGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME:

AGREEMENT NUMBER:

DOC (NTIA/ITS)
50D (ECAC)
3HIO UNIVERSITY

DTFA01-80-C-10072

SPECIFIC OBJECTIVES: 11. EEVISE THE LEVEE FREQUENCY ASSIGNMENT HANDBOOK TO REFLECT NEW INTERFERENCE PREDICTION CRITERIA AND METHODS. TO EXTEND ASSIGNMENT HETHOD TO NEW PANDS FOR NON-CIRECTIONAL BEACONS PROPOSED IN WARC 79 AND TO DEVELOP AND INCORPORATE SHARING CRITERIA WITH HARITIME RADIO NAVICATION AND TRAVELERS INFORMATION SERVICE BROADCASTING.

12. MILESTONES:

DESCRIPLION PHARD CONTRACTS TO CHID UNIV. FINAL HANDPOOK INDICATOR TYPE

CURR DATE 6/80 6/82

1/06/81 REPORT DATE: -ر. ပ ы 0 z エ い TECHNICAL PPOCFAR DOCUMENT T E 7 × 1 E A C E t/s <u>س</u>

1. 1301ECI_NUMELA: 213-462-070

2. STAPT_DATE: 10/79

7. TELERHONE_NUMBER: 202-426-3994

4. IIILE: FCAS EMC ANALYSIC (ECAC)

5. BANGER: JERFY LEE ANDERSON

3. REVISION NUMBER:

9. MENULBERSII: FAA-ED-21-4, SECTION 2.2.8 6. QBGANIZATION: ARP-451

10. PARTICITATING DOI ZGOVEENMENT ONGANIZATIONS AND AGREEMENT NUBERS:

ORGANIZATION NAME ECAC, TASK 6

AGREERENT NUMBER: IAA FA77WAI-778

11. SPECIFIC OBJECTIVES:

TO DETERMINE THE IMPACT ON THE BACON DERIVED ACTIVE (BCAS) IN AN AIMS/ATCRRS/DABS ENVIRONMENT AND TO PREDICT ACTIVE ECAS INTERFERENCE TO ATCRBS/DARS/AIMS. THE FY-80 EFFORT IS TO PREDICT: THE IMPACT OF THE I"FROWED ACTIVE BCAS ON ATCRRS, DARS, AND AIMS RODEI IN THE LOS ANGELES BASIN AREA, 1982 ENVIRONAENT. TO DETERMINE THEEM OF BCAS AND TACAN/DME FFOM A FREQUENCY MANAGEMENT STANDPOINT.

12. MILESTOKES:

DESCRIPTION
DELIVER CAMERA COPY OF RPT ON LA BASIN
SUBMIT CAMERA COPY OF FINAL PEPORT INDICATOR

CUER DATE 4/81 u/81

	REPORT DATE: 1/06/81			
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1. PROJECT NUMBER: 213-462-360

2. SIARI_DAIE: 10/76

3. KEVISION_NUMBER:

4. IIIIE: VHF/UHF AIR/GRND COMMUNICATIONS FREQUENCY SMGINEERING HNDBK 6050.48

7. TELEPHONE_NUMBER: 202-426-3994 6. ORGANIZATION: ARD-452B

5. MANAGER: CHARLES CRAM

9. BEQUIREMENT: FAA-ED-21-4, SECTION 2.2.1(2), PAGE R

10. PARTICIPATING DOT ZCOYERNMENT ONGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME:

FA77WAI778 FA77WAI778 FA70WAI175 IAA

11. SPECIFIC OBJECTIVES:

ECAC

TO UEDATE THE EXISTING HANDBOOK WHICH ESTABLISHES CRITERIA, FOR ASSIGNMENT OF FREQUENCIES TO VHF/UHF AIR/GROUND ("AERONAUTICAL MOBILE SERVICE", AS DEFINED BY THE INTERNATIONAL TELECOMMUNICATION UNION) COMMUNICATIONS FACILITIES TECHNICAL AND ENVIRONMENTAL DISCUSSIONS ARE ALSO GIVEN FOR THE INSTRUCTION AND GUIDANCE OF THE FREQUENCY FNGINEFR.

12. MILESTONES:

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	DEVELOP TRANSMISSION LOSS CURVES	
	SEPARATION CRITERIA FOR SERVICE VOLUMES	
	SEPARATION OF ANTENNAS AT SITE	•
	ANTENNA PATTERNS CORPLETE	, -
	FINAL HANDBOOK	

CURR DATE 1/76 2/76 3/77 4/77

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1/06/81

213-462-370 PROJECT NUMBER:

STABL DATE: 11/76 2.

5. KANAGEP: 4. IIILE: VHF/UHF MICROWAVE LINK FREQUENCY ENGINEPPING HANDBOCK, 6050.17A REV

7. TELEEHONE_NUMBEE: 202-426-3994

6. CREANIZATION: ARD-451C

9. BRUNIARIENT: FAA-ED-21-4, SECTION 2.2.9

D. FRETZ ۲,

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REVISION NUMBER:

10. PAPTICIPATING DOI /GOVERNMENT OFGANIZATIONS AND AGREEMENT NUMBERS:

DEGANIZATION NAME:

AGREEMENT NUMBER: FA78WAI778

IAA

SPECIFIC OBJECTIVES:

TO REVISE HANDROOK 6050.17A TO INCORPORATE 1) CRITERIA FOR NEW EQUIPMENT SUCH AS THE TELEVISION MICPOWAVE LINKS 2) NEW FREQUENCIES AND INTERFFRENCE ANALYSES FOR BAND SHARING WITH HIGH POWER SATELLITE SYSTEMS 3) IMPROVED ELECTROHAGNETIC COMPATIBILITY ANALYSIS AIDS.

MILESTONES: 12.

CURR DATE 2/80 2/81 12/80 (ECAC INPUT FINAL FORM) <u>DESCRIPZION</u>

ECAC CONTRCT AWARD FREQ ASSIGNMENT MODEL

ECAC CONTRACT COMPLETE

FINAL HANDBOOK DELIVERED (ECAC INPUT FII

FINAL HANDROOK APPROVAL INDICATOR TYPE

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TECHNICAL FROGRAM DOCUMENT

REPORT DATE: 1/06/81

1. ERQJECT_YUMBER: 215-408-010

2. START DATE: 10/79

3. PEVISION_NUMBER:

4. IIILE: METFICATION IN THE MATICUAL AIRSPACE SYSTEM

6. QRGANIZATION: ARD-442

5. MANAGER: CHARLES J ANDRASCO

9. AEQUIAGESENT: AGENCY ORDER 1020.1 "TRANSITION TO METRIC SYSTEM

7. IELEPHONE_NUMBER: 202-426-3585

10. PASTICIPATING DOT/GOVERNMENT DEGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: 11. SPECIFIC OBJECTIVES:

AGREEMENT NUMBER:

CONDUCT IN-DEPTH ANALYSIS OF THE HUMAN FACTOP INPLICATION OF PETRICATION TO DETERMINE THE IMPACT/RISK INVOLVED IN HETRIC CONVERSION.

12. MILESTONES:

DESCRIPTION CONTRACT FOR HUMAN FACTOR STUDY HUMAN FACTORS STUDY RPT COMPLETE METRIC COMVERSION CONFIGURATION REPORT INDICATOR

DATE 12/83 12/84 6/86

1/06/81 REPORT DATE:

1. PROJECT_NUMBER: 218-150-010

00/0 2. STARI_PAIE:

3. PEVISION NUMBER:

4. IIILE: FAA NASA SIHULATIONS

7. ISLEPPONE_NUMBREE: 202-426-9332 6. ORGANIZATION: ARD-102

5. MANAGER: JOSEPH O'BRIEN

9. BEQUIREMENT: SRDS/NASA AMES LOA 6/21/74 & NAFEC/AMES LOF -256 (910-003-160)

10. PARTICIFATING DOI/GOVERNMENT OFGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: NASA AMES FAATC/AMES

AGREEMENT NUMBER

11. SPECIFIC OBJECTIVES:

IAA-256

PROVIDE OPERATIONAL SCENARIOS USING HIGH PERFORMANCE FLIGHT SIMULATORS AT NASA AMES RESEARCH CENTER, TO EVALUATE ADVANCED 4D FLECTRONICS SYSTEMS, FOR LIVE TESTS OF STOL AIRCRAFT AND IN DESIGN, TEST, AND EVALUATION OF FUEL OPTIMIZED FIIGHT PROCEDURES.

12. MILESTONES:

DESCRIPTION STATES STATES FINAL REPORT ON ARES 4D TESTS (FI) TYPE

CURR DATE 8/81 11/81

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REPORT DATE: 1/06/81	•		*
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1. EBOJECT_NUMBER: 218-152-020

2. START_DATE: 5/80

3. REVISION NUMBER:

4. IIIIE: STUPY OF STRUCTANEOUS TPIPLE ILS APPROACHES

5. MANAGER: JOSEPH P. O'BRIEN

6. ORGANIZATION: ARD-102

9. <u>EEGUIREMENT:</u> 9550 AAT 300-30

10. PARTICIPATING DOTZGOVERNMENT ORGANIZATIONS LAND AGREEMENT NUMBERS:

7. IELEPHONE_NUMBER: 202-426-9332

OPSANIZATION NAME: FAA TECH CENTEP BAT-320 (WILES RENOLDS)

AGREEMENT NUMBER: TPD 14-211 NONE

11. SPECIFIC_OBJECTIVES:

TO DEFERMINE THE FEASIBILITY OF SIMULTANEOUS ILS (CAT I, II, AND III) APFROACHES TO 3 OR MORE Parallel Rummays.

12. MILESTONES:

CURR 11/80 11/60 2/81 DESCRIPTION
PRODUCT PLAW COMPLETED
DYNAMIC SIMULATION COMPLETED
REPORT ON CHI TRIPLE RUNWAY STUDY COMPLETED (ET) INDICATOR TYPE

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	REPORT DATE: 1/06/81			· · · · · · · · · · · · · · · · · · ·
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1. <u>2501ECI_NUMBER</u>: 215-152-030

2. SIBRILDAIE: 12/80

0 3. REVISION NUMBER:

4. IIILE: CHICAGO MIDNAM AIRSPACE STUDY

6. ORGANIZALION: AFD-102

5. MANAGER: JOSEPH P. C'BRIEN

9. BEQUIRENANT: LETTER RECUEST FROM ATF

10. PARTICIPATING DOT/GOVERNOENT ORGANIZATIONS AND AGREEMENT NUMBERS:

7. TELEPHOME_NUMBEE: 202-426-9332

CRGANIZALION NAME: FAR TECH CENTER ATE-4, J. DZ7TK

AGREEFENT NUMBER: TPD 14-211 NOVE

11. SECTETC OBJECTIVES:

12. MILESTONES:

LESCRIPLIOU PROJECT PLAN FINAL REPORT COMPLETED (EI) TYPE INDICATOR

TO STUDY AIRSPACE AND IMPACT ON REACTIVATING THE CHICAGO MIDWAY AIRPORT.

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REPORT DATE: 1/06/81

1. PROJECT_NUMBER: 218-152-040

5/80 2. STAET_DATE:

3. REVISION NUMBER:

4. IIIIE: MENICO CITY AIRSPACE/AIRPORT STUDY

7. TELEPHONE NUMBER: 202-426-9332 9. <u>REQUIREMENT:</u> REQUEST FROM DIRECTOR CFNERAL, CIVIL AVIATION, MEXICO. 6. ORGANIZATION: ARD-102

5. KANAGER: JOSEPH P. O'BRIEN

10. PARTICIPATING DOT/SOUTENMENT CHGANIZATIONS AND AGREEMENT MURBERS:

ORGANIZATION NAME: FRA TECH CENTER ASW-500 (JOHN FLISKO)

ACREEMENT NUMBER: TPD 14-211 NONE

11. SPECIFIC OBJECTIVES:

STUDY THE AIRSPACE FOR THE MEXICO CITY AIRPORT AND FOR THE ADDITIONAL RUNWAY. EXPECT THAT THE MEMOKANDUM OF AGREEMENT WILL BE CHANGED BY THE MIXICAN COVERNMENT.

12. MILESTONES:

DESCRIPTION
PRODUCT PLAN COMPLETED
FINAL STUDY REPORT COMPLETED (FI) <u>INDICATOR</u>

CURR DATE 11/80 8/61

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1. PROJECT_NUMBER: 218-154-01H

2. STAPT DATE: 10/79

7. TELEPHONE_NURBER: 202-426-9332

3. REVISION NUMBER:

4. IIILE: FAA/NASA VIOL SUPPORT PROGRAM

5. MANAGER: JOSEPH O'BRIEN

9. REQUILMEMENT: HILLICOPTER PROGRAM PLAN

6. QRGANIZATION: ARD-102

10. PARTICIPATING DOI / COMERNHENT OPGANIZATIONS AND AGREEKENT NUBBERS:

ORGANIZATION NAME:

AGREEMENT NUMBER: LOA 6/74

11. SPECIFIC OBJECTIVES:

12. MILESIONES:

TYPE LEDICATOR	DESCRIPTION REPORT, PROCEDURES AND SPECIFICATION COMPLETE (EI)	CURR DATE 9/81
	METTER REPORT ON STRUINTION	10/80
	CONTRACT SIGNED	1/81
	SIMULATION COMPLETS	8/81
	SEPORT, PROCEDURES AND SPECIFICATION COMPLETE (EI)	9/81
	FINAL RPT FOR SIN OF INDEP HELL APPROACHES (EI)	2/81

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	REPORT DATE: 4/06/84			
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1. PROJECT NUMBER: 218-154-02H

1/19 2. START DATE:

3. PEVISION NUMBER:

4. IIIIE: LORAN FLIGHT FOLLOWING (LOFF)

6. CRGANIZATION: ABD-102/ARD-330

5. MANAGER: J.O'BRIEN/R.HILTON

9. MEQUIREMENT: HELICOPTER DEVELOPMENT PLAN

7. IELEPHONE_NUMBER: 202-426-0332

10. PARTICIEATING DOIZGOVEPRMENT CHGANIZATIONS AND AGREEMENT NUMBERS:

OLGANIZATION NAME: TSC SCUTHWEST REGION HOUSTON CENTER

AGREEMENT NUMBER: PPR FR-084 NCNE

11. SPECIFIC OBJECTIVES:

TO EVALUATE THE LORAN FLIGHT FOLLOWING (LOFF) SYSTEM IN THE HOUSTON CENTER USING THE DEC 1134 COMPUTER AND A REGATEK GRAPHIC DISPLAY TO COVER HELICOPTER OPERATIONS IN THE GULF OF MEXICO.

12. MILESTONES:

DESCRIPTION INTERIM REPORT COMPLETED (EI) FINAL REPORT COMPLETED (EI) INDICATOR

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1. PROJECT_NUBBER: 219-151-013

STAFT DATE:

7. IELEPHONE_NUMBER: 202-426-9338

3. BEXISION MUNICER:

4. IIILE: MENOIE MAINTENANCE MONITORING SYSTEM WITH CONSOLIDATED DISPLAYS

5. MANAGER: HOLLY BARLAGE

6. ORGANIZATION: ARD-121

9. BEQUINERREMY: AAF/ARD/ANA IAA DTD 3/16/78

ASREEMENT NUMBER: TED 21-199 10. PARTICIPATING DOTZONERNÄENT OEGANIZATIONS END AGREENT NUKREES: ORCANIZATION NAME: FAAIC

11. SPECIFIC OBJECTIVES:

TO PROVIDE ANALYTICAL AND TECHNICAL SUPPORT TO ARE IN THEIR PFOCUFEMENT OF A REMOTE MAINTENANCE MONITORING SYSTEM AITH CONSOLIDATED CAE DISPIRYS AS STIPULATED IN THE APPROVEL INTER-AGENCY AGREEAENT BEIWWEN RAF, AFD AND NAFEC.

12. MILESTONES:

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1. PROJECT_NUMBER: 219-151-020

2. SIRRI DAIE: 10/78

7. TELEPHONE NUMBER: 202-426-9338

3. REVISION_NUMBER:

4. IIILE: STANDARD SUPERVISORS DESKACONSOLE FOR IRACONS

9. REQUIREMENT: 9550 AAF-510-79-003

6. OBGANIZATION: ARD-121

5. MANAGER: HOLLY BARLAGE

10. PARTICIPATING DOT ZGOYERNMENT ORGANIZATIONS AND AGREEMENT NUMBERS:

AGREEMENT NUMBER: TPD-14-292

OMGANIZATION NAKE: FAATC

LU STANDARDIZE THE SUPERVISORY POSITION ENVIPONMENT IN TRACONS TO PROVIDE A EUNCTIONALLY COORDINATED FOSITION FROM WHICH THE SUPEPVISOR CAN YOUITGR AND CONTRCL THE NUMEROUS OPERATIONAL AND SUVEROMENTAL FUNCTIONS ASSIGNED TO THE POSITION IN A WORK SPACE CONSISTERT WITH STANDARD TRACON 11. SPECIFIC ORJECTIVES: LAYOUTS.

12. MILESIONES:

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FCF PAT/AAF/ARD ACCEPTED T (EI)
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1/0K/81

219-152-010 1. PROJECT NUMBER:

2. SIABI_DAIE: 10/79

3. BEYISICH NUMBER:

4. IIILE: EVALUATION OF COLOR DISPLAYS FOR ATC

5. MANAGER: JOSEPH O'BRIEN

6. QRIGANIZATION: AND-102

9. SELUIBERELE: 9550 - AAF 613-78-006

7. IELEFHONE NUMBEE: 202-426-9332

10. PARTICIPATING VOT / GOVERNMENT CHGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME: AAF/SRDS/FAATC/AAT/WASH ARTCC BAYTHSON CORPONATION

AGREEMENT NUMPER:

11. SPECIFIC OBJECTIVES:

PERFORM A TECHNICAL AND OPERATIONAL EVALUATION OF THE PLANND VIEW DISPLAY (PVD) AND DISPLAY CONTROL VECTOR GEWEPATOR (DCYG) COLOR HODIFICATION. STUDY AND EVALUATE OTHER PROMISING COLOR DISFLAY TECHNIQUES LEADING TO A SPECIFICATION.

12. MILESTONES:

DESCRIPTION OPPLETED FINAL RPT ON PIELD TEST (9550) (FI) TYPE INDICATOR

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TART_DATE: 10/79

MANAGER: JAKES H CHILDEPS

REVISION NUMBER:

3.

4. IIIIE: DESCRIDEFINITION OF FUTURE ATC SYSTEMS AND ASSOCIATED INTEPFACES

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9. BEQUINCINEUR : FUNC INTEG TO INSURE SRDS PORS ARE ACCOR ON THE / COMPATIELE & COORD 7. TELEPHONE_NUMBEE: 202-426-8617 6. OBJARIZATION: ARD-441

10. PARTICIPATING DOI/COVERNMENT OFGANIZATIONS AND AGREEMENT NUMBERS:

ORGANIZATION NAME:

AGREEMENT NUMBER:

11. SPECIFIC OBJECTIVES:

TO ASSURE PROPER INTERFACES AMONG EQUIP, SYSTEMS, AND PROGRAMS ARE BEING ACCOMPLISHED. TO ASSURF COMPATIBILITY OF INDIVIDUAL EFFORTS PROPER SCHEDULE INTEGRATION. UPDATE PREVIOUS DESCRIPTION OF ATC SYSTEMS FOR NEAR-TERM AND LONG-TERM SCENAPIOS.

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E POTO A DOR	DESCRIPTION	DATE
	PUELISH BLUE BOOK (INTEGRATION ISSUES)	5/80
3 .7	UPDATE BINE BOOK	1/80
> :	UPDATE SIUE BOOK	1/62
×	UPDATE SLUE BOOK	1/83
# .	UPDATE SYSTEM DESCRIPTION	1/83
a:	UPDATE BLUE BOOK	1/64
N .;	UPDATE BLUE ROOK	1/85
X I	UPDATE SYSTEM DESCRIPTION	1/65

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